



### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1120

#### Nuclear Cardiology: Myocardial Perfusion Imaging

Saturday, March 10, 2018, 9:30 a.m. - 12:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

311 - Predictors of Low Radiation Exposure in United States SPECT Laboratories

Michael Carl Desiderio, Justin Lundbye, William L. Baker Jr., Mary Beth Farrell, Gary Heller, Morristown Medical Center, Morristown, NJ, USA, Waterbury Hospital, Waterbury, CT, USA

312 - Contemporary Patient Radiation Exposure From PET Versus SPECT MPI

Michael Carl Desiderio, Justin Lundbye, William L. Baker Jr., Mary Beth Farrell, Gary Heller, Morristown Medical Center, Morristown, NJ, USA, Waterbury Hospital, Waterbury, CT, USA

313 - Utilization of Radiation-Saving Practices With Myocardial Perfusion Imaging: Temporal Trends and Impact on Radiation Dose

Firas J. Al Badarin, Timothy Bateman, Krishna Patel, Kevin Kennedy, James Case, Randall Thompson, Saint Luke's Mid America Heart Institute, Kansas City, MO, USA

314 - Abnormal Myocardial Blood Flow With Normal Qualitative Perfusion With Positron Emission Tomography Myocardial Perfusion Imaging in Heart Transplant Recipients

Andrew Noll, Ghina Alaeddine, Serge Harb, Emer Joyce, Miriam Jacob, Rory Hachamovitch, Paul Cremer, Wael Jaber, Cleveland Clinic, Cleveland, OH, USA

315 - The Relationship Between Cardiac MRI Derived Strain at Rest and Coronary Flow Reserve

Joseph Soltys, Ibrahim Saeed, James Case, Timothy Bateman, Cardiovascular Imaging Technologies, LLC, Kansas City, MO, USA, Saint-Luke's Mid America Heart and Vascular Institute, Kansas City, MO, USA

316 - Coronary Revascularization-Based Improvement in Regional Myocardial Blood Flow Is Dependent on Baseline Regional Coronary Flow Capacity

Robert Bober, Richard Milani, Nichole Polin, Daniel Morin, Ochsner Health System, New Orleans, LA, USA

317 - Repeatability of SPECT Myocardial Blood Flow With Tetrofosmin

Terrence D. Ruddy, Duncan Clackdoyle, Clare Carey, Brian Marvin, Robert deKemp, R. Glenn Wells, University of Ottawa Heart Institute, Ottawa, Canada

318 - Randomized Comparison of Clinical Effectiveness of Pharmacologic Stress Myocardial Perfusion Imaging With Single Photon Emission Computed Tomography (SPECT) and Positron Emission Tomography (PET) in Patients With Known Coronary Artery Disease Presenting With Suspected Ischemia

Krishna Patel, Firas Al Badarin, Arthur McGhie, Staci Courter, Kevin Kennedy, James Case, Timothy Bateman, Cardiovascular Consultants, PC, Kansas City, MO, USA

319 - Comparison of High Efficacy CZT SPECT Myocardial Perfusion Imaging (MPI) and Na-I SPECT MPI With Gold Standard Coronary Angiography

Harsh Rawal, Roma Mehta, Niyati Gupta, Srinivasan Sattiraju, Sanjay Mehta, University of Illinois at Urbana- Champaign, Urbana, IL, USA

320 - Cardiac Stress Testing Guides Subsequent Patient Management: Rates of Coronary Angiography Based on Myocardial Perfusion Imaging Results

David B. Min, Steve Mason, Stacey Knight, J. D. Ethington, Viet T. Le, Kent Meredith, Ritesh Dhar, Jeffrey Anderson, J. Muhlestein, Donald Lappe, Kirk Knowlton, Intermountain Medical Center, Salt Lake City, UT, USA

321 - Transitioning From Cardiac SPECT to PET Myocardial Perfusion Imaging Resulted in Increased Ascertainment of Individuals Requiring Revascularization

David B. Min, Steve Mason, Stacey Knight, JD Ethington, Viet T. Le, Kent Meredith, Ritesh Dhar, Jeffrey Anderson, J. Muhlestein, Donald Lappe, Kirk Knowlton, Intermountain Medical Center, Salt Lake City, UT, USA

322 - Long-Term Prognostic Value of Single-Photon Emission Computed Tomography Myocardial Perfusion Imaging After Primary PCI For STEMI

Jeff Smit, Maaïke Hermans, Aukelien C. Dimitriu-Leen, Alexander van Rosendaal, Petra Dibbets-Schneider, Lioe-Fee de Geus-Oei, Bart Mertens, Martin Schalijs, Jeroen J. Bax, Arthur Scholte, Leiden University Medical Center, Leiden, The Netherlands

323 - Prognostic Value of Vasodilator-Induced ST Segment Changes in Patients With Normal Rubidium-82 Myocardial Perfusion Imaging

Ahmed Hamad Alijeeri, Dalia Ahmed, Mousa Alali Alfaris, Jabir Farea, Ihab Suliman, Awadelkarim A. Elneama, Misfer Aldosari, Henry Fielding, Amjad Ahmed, Ahmed Alsaileek, Mohsen Alharthi, Mouaz H. Al-Mallah, King Abdulaziz Cardiac Center, Riyadh, Saudi Arabia, King Saud bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia

324 - Determining Post-Test Risk in a Sample of Stress Nuclear Myocardial Perfusion Imaging Reports: Implications For Natural Language Processing

Andrew Levy, Nishant Shah, Ruth M. Reeves, Michael Matheny, Glenn T. Gobbel, Steven Bradley, VA Eastern Colorado Healthcare System, Denver, CO, USA, University of Colorado Hospital, Aurora, CO, USA

325 - Comparison of Coronary Flow Reserve in Normal Perfusion Patients With and Without Coronary Risk Factors Using Cadmium Zinc Telluride Based Gamma Camera

Gustavo Daquarti, Alejandro Meretta, Daniel Rosa, Mariana Corneli, Eugenia Aguirre, Magali Gobbo, Carlos Rapallo, Osvaldo Masoli, Nestor Perez Baliño, Instituto Cardiovascular de Buenos Aires, Buenos Aires, Argentina

326 - Assessment of Exercise Coronary Flow Reserve With Cadmium Zinc Telluride Gamma Camera



Gustavo Daquarti, Alejandro H. Meretta, Daniel Rosa, Eugenia Aguirre, Mariana Corneli, Magali Gobbo, Carlos Rapallo, Osvaldo Masoli, Nestor Perez Baliño, Instituto Cardiovascular de Buenos Aires, Buenos Aires, Argentina

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1121

#### Sports and Exercise: Promoting Health and Detecting Disease

**Saturday, March 10, 2018, 9:30 a.m. - 12:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

327 - High Performers on Exercise Treadmill Stress Testing Derive Survival Benefit in All Adult Age Groups: Lessons From 126,356 Patients

Kyle Mandsager, Serge Harb, Bo Xu, Yuping Wu, Wael Jaber, Cleveland Clinic Foundation, Cleveland, OH, USA

328 - Prognostic Importance of Poor Cardiorespiratory Fitness in Patients With Cancer Referred For Exercise Treadmill Testing  
John D. Groarke, David L. Payne, Brian Claggett, Mandeep Mehra, Jingyi Gong, Jesse Caron, Syed Mahmood, Jon Hainer, Tom Neilan, Ann H. Partridge, Marcelo Di Carli, Lee W. Jones, Anju Nohria, Brigham & Womens Hospital, Boston, MA, USA, Dana Farber Cancer Institute, Boston, MA, USA

329 - Phenotyping Left Heart Diseases of Different Origin Through an Analysis of Exercise Ventilatory and Weber Classifications: A Comparative Case Control Analysis  
Tadafumi Sugimoto, Francesco Bandera, Greta Generati, Eleonora Alfonzetti, Vincenzo Tufaro, Marco Guazzi, IRCCS Policlinico San Donato, Milano, Italy

330 - Endurance Exercise Training Attenuates Natriuretic Peptide Release During Maximal Effort Exercise: Biochemical Correlates of the Athlete's Heart  
Ankit B. Shah, Jodi Zilinski, Marcel G. Brown, Jennifer H. Neary, Rory Weiner, Adolph Hutter, Fred Apple, Michael Picard, James Januzzi, Aaron Baggish, Massachusetts General Hospital, Boston, MA, USA, University of Minnesota School of Medicine, Minneapolis, MN, USA

331 - Resistance Exercise and Left Ventricular Structure as Assessed Using Cardiac Computed Tomography Angiography: A Contemporary Reassessment of the Morganroth Hypothesis  
Dahlia Banerji, Daniel Bittner, Borek Foldyna, Bálint Szilveszter, Nandini Meyersohn, Raza Alvi, James I. Hudson, Udo Hoffmann, Harrison Pope, Aaron Baggish, Michael T. Lu, Massachusetts General Hospital, Boston, MA, USA

332 - Exaggerated Exercise Blood Pressure Response Is Accompanied by Increased Sympathetic Activity and Arterial Stiffness in Subjects With High Normal Blood Pressure  
Konstantinos P. Tsioufis, Theodoros Kalos, Alexandros Kasiakogias, Kyriakos Dimitriadis, Dimitris Konstantinidis, Rania Katsarou, Mairi Kouremeti, Konstantinos Kyriazopoulos, Spyros Galanakis, Dimitris Tousoulis, First Cardiology Clinic, University of Athens, Hippokraton Hospital, Athens, Greece

333 - Aortic Root Dilatation Associated With Collegiate American Style Football Participation

Jonathan H. Kim, Casey Hollowed, Keyur Patel, Zaina Gowani, Mohamad Gafeer, Danielle Harlan, Ali Haider, Salman Sher, Angelo Galante, James Shoop, Craig Clark, Arshed Quyyumi, Aaron Baggish, Emory University, Atlanta, GA, USA

334 - The Effect of Obesity and High Left Ventricular Filling Pressure on Exercise Capacity in Heart Failure With Reduced Ejection Fraction

Erik Van Iterson, Joshua Smith, Kate Uithoven, Eric Snyder, Thomas Olson, Mayo Clinic, Rochester, MN, USA

335 - Exercise Test and Obesity Paradox

Nora Sydo, Tibor Sydo, Bela Merkely, Francisco Lopez-Jimenez, Thomas Allison, Mayo Clinic, Rochester, MN, USA

336 - Intramyocardial Coronary Arteries in Children: Not All Are Benign But Most Allow Return to Exercise

Silvana Molossi, Hitesh Agrawal, Carlos Mery, Sara Kristen Sexson Tejtzel, Rodrigo Zea-Vera, Athar Qureshi, Prakash Masand, Cory Noel, Charles Fraser, Texas Children's Hospital, Baylor College of Medicine, Houston, TX, USA

337 - The Value Added by a Limited Echocardiogram to a Student Athlete Screening Program

Meet Patel, Marsal Matka, Travis Tagami, Judith Boura, Nancy Cutler, Steven Almany, Aaron Berman, David Haines, Beaumont Hospital, Royal Oak, MI, USA

338 - Normal Exercise Duration of Treadmill Stress Testing With Handrail Support

Henry A. Tran, Blain Hailemariam, Madeline Lui, Kelsey Weathers, Sanchita Gupta, Scott Barnett, Inova Heart and Vascular Institute, Falls Church, VA, USA

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1122

#### Echocardiography in Evaluating Heart Failure

**Saturday, March 10, 2018, 9:30 a.m. - 12:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

339 - Kinematic Modeling of Diastolic Filling Identifies Distinct Diastolic Function Patterns in Heart Failure With Preserved and Reduced Ejection Fraction

Julio A. Chirinos, Swetha Gaddam, Bilal Ansari, Jonathan Lee, Yueya Ge, Jessica Kim, Rachana Miller, Izzah Arfa, Rushik Bhuvu, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

340 - Abnormal Left Atrial Mechanics Predict Incident Atrial Fibrillation in AL Cardiac Amyloidosis Following Autologous Stem Cell Transplantation

Graham Lohrmann, Monica Arun, Dina Brauneis, Karen Quillen, Vaishali Sanchorawala, Shayna Sarosiek, Omar Siddiqi, Frederick Ruberg, Deepa Gopal, Boston Medical Center, Boston, MA, USA

341 - Impact of Myocardial Extracellular Volume Assessed by Cardiac Magnetic Resonance T1 Mapping on Systolic and Diastolic Function of the Heart



Naka Saito, Shingo Kato, Naoki Asahina, Naoki Iinuma, Shintaro Minegishi, Daisuke Kamimura, Tatsuya Nakachi, Kazuki Fukui, Masami Kosuge, Kazuo Kimura, Kouichi Tamura, Kanagawa Cardiovascular and Respiratory Center, Yokohama, Japan

342 - Computational Unsupervised Clustering of Echocardiographic Variables For the Assessment of Diastolic Dysfunction Severity

Alaa Mabrouk Salem Omar, Megan Cummins Lancaster, Sukrit Narula, Ahmed Baiomi, Jagat Narula, Partho Sengupta, Icahn School of Medicine at Mount Sinai, New York, NY, USA, Bronx Lebanon Hospital Center, New York, NY, USA

343 - Mean Pulmonary Artery Gradient Is a Stronger Doppler Predictor For Heart Failure and Mortality: The Heart and Soul Study

Calvin Kwong, Qizhi Fang, Bryan Ristow, Mary Whooley, Nelson Schiller, University of California, San Francisco, San Francisco, CA, USA, Veterans Affairs Medical Center, San Francisco, CA, USA

344 - Does Reporting of Global Longitudinal Strain Impact Clinical Decisions in Patients Undergoing Echocardiography as Part of Chemotherapy Monitoring?

Mahmoud Ali, Waleed Al-Darzi, Aria Bryan, Namita Joseph, Asaad Nakhle, Ayush Motwani, Meredith Mahan, Karthikeyan Ananthasubramaniam, Henry Ford Hospital, Detroit, MI, USA

345 - Early Detection of Right Ventricular Dysfunction Assessed by Two-Dimensional Speckle-Tracking Echocardiography in Adult Lymphoma Patients Receiving Anthracycline-Based Chemotherapy

Ahmad S. Manshad, Fatima A. Ballout, Tochukwu M. Okwuosa, Rush University Medical Center, Chicago, IL, USA

346 - Logistic Utility of Mandatory Routine Baseline Echocardiography Exams Prior to Treatment With Anthracyclines For Breast Cancer: Challenging a NON-Evidence-Based Recommendation

Jose A. Banchs, Adrian DaSilva-DeAbreu, Raymundo Quintana Quezada, Daniel Booser, Astrid Serauto, Gabriela Sanchez Petitto, University of Texas MD Anderson Cancer Center, Houston, TX, USA

347 - Temporal Changes in Left Atrial Function in Women With HER2+ Breast Cancer Receiving Sequential Anthracyclines and Trastuzumab Therapy

Jennifer Meloche, Mark Nolan, Eitan Amir, Christine Brezden-Masley, Andrew Yan, Babitha Thampinathan, Anna Woo, Wintersperger Bernd, Paaladinesh Thavendiranathan, Division of Cardiology, Peter Munk Cardiac Center, Toronto General Hospital, UHN, Toronto, Canada, Ted Rogers Program in Cardiotoxicity Prevention, Toronto General Hospital, UHN, Toronto, Canada

348 - Association of Hyperleptinemia With Subclinical Cardiac Dysfunction in Obese Adolescents

Duangduan Siri Wittayawan, Thamonwan Imerbtham, Teonchit Nuamchit, Piyanuch Thitiwuthikiat, Teerapat Yingchoncharoen, Naresuan University, Phitsanulok, Thailand

349 - Left Atrial Strain During Exercise Is a Key Determinant of Cardiovascular Event in Patients With Non-Ischemic Dilated Cardiomyopathy

Makoto Amaki, Yasuhiro Hamatani, Hideaki Kanzaki, Yoshiki Yanagi, Rika Mizuta, Atsushi Okada, Hiroyuki Takahama, Takuya Hasegawa, Yasuo Sugano, Satoshi Yasuda, Toshihisa Anzai, National Cerebral and Cardiovascular Center, Suita, Japan

350 - Augmentation of Left Ventricular Systolic Function With Intravenous Microbubbles and Intermittent High Mechanical Index Impulses in Patients With Depressed Left Ventricular Systolic Function

Thomas Richard Porter, Arif Albulushi, Ahmed Aboeata, Feng Xie, University of Nebraska Medical Center, Omaha, NE, USA

351 - Echocardiographic Left Ventricular Global Longitudinal Strain Measurement Quality in Patients Receiving Cardiotoxic Chemotherapy: Effect of Segmental Statistical Outliers

James MacNamara, Colby Ayers, Brian Lochlaer, Vlad Zaha, University of Texas Southwestern, Dallas, TX, USA

352 - Prognostic Value of Inferior Vena Cava Size by Ultrasound in Patients With Heart Failure

Maria Trejo, Fausto Cabezas, Denise Hersey, Christopher Moore, Ben Lin, Robert McNamara, Yale University, New Haven, CT, USA

353 - Echocardiographic Predictors of Mortality in Women With Heart Failure With Reduced Ejection Fraction

Ingrid Lundorff, Morten Sengeløv, Peter Jørgensen, Sune Pedersen, Daniel Modin, Niels Eske Bruun, Thomas Hansen, Jan Jensen, Tor Biering-Sørensen, Gentofte Hospital, University of Copenhagen, Copenhagen, Denmark, Institute of Clinical Medicine, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark

354 - Association of Appearance of L Wave in Heart Failure Patients With Preserved Versus Reduced Ejection Fraction

Kumiko Masai, Akiko Goda, Masataka Sugahara, Aika Matsumoto, Masanori Asakura, Masaharu Ishihara, Tohru Masuyama, Department of Internal Medicine, Cardiovascular Division, Hyogo College of Medicine, Nishinomiya, Japan

355 - Right Ventricular Function and Cardiopulmonary Performance in Cardiac Diseases: The Mainstay Role of Right Ventricular Afterload

Maria Chiara Palumbo, Francesco Bandera, Enrico Caiani, Eleonora Alfonzetti, Marco Guazzi, Politecnico di Milano, Milano, Italy

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Moderated Poster Contributions - Session #1137M  
Novel Echo Applications**

**Saturday, March 10, 2018, 10:00 a.m. - 12:00 p.m.**

**Non Invasive Imaging Moderated Poster Theater, Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

ACC Poster Moderator: Itzhak Kronzon

ACC Poster Moderator: Diego Medvedofsky

10:00 a.m.

Flow Rate Not Stroke Volume Is a Superior Prognostic Marker of Transcatheter Flow and Flow Reserve in Patients With Low-Flow Low-



Gradient Aortic Stenosis Undergoing Low-Dose Dobutamine Echocardiography

Anastasia Vamvakidou, Wenying Jin, Oleksandr Danylenko, George Papasozomenos, Navtej Chahal, Rajdeep Khattar, Roxy Senior, Northwick Park Hospital, Harrow, United Kingdom, Royal Brompton Hospital, London, United Kingdom

10:10 a.m.

Question and Answer

10:15 a.m.

The Impact of Valvuloarterial Impedance on the Left Ventricular Myocardial Regression After Transcatheter Aortic Valve Replacement: A Comparison With Transvalvular Mean Pressure Gradient

Satoshi Yamaguchi, Yuka Otaki, Balaji Tamarappoo, Atsushi Hayashi, Takafumi Nagaura, Jun Yoshida, Tetsuo Kamiyama, Tarun Chakravarty, Raj Makkar, John Friedman, Daniel Berman, Florian Rader, Robert Siegel, Takahiro Shiota, Cedars-Sinai Medical Center, Los Angeles, CA, USA

10:25 a.m.

Question and Answer

10:30 a.m.

The Effectiveness of Microbubble-Mediated Sonothrombolysis For Inducing Early Recanalization of Different Culprit Coronary Arteries in Patients With Acute ST-Segment Elevation Myocardial Infarction

Wilson Mathias, Bruno G. Tavares, Miguel Osman Aguiar, Jeane Tsutsui, Hsu Chiang, Alexandre Soeiro, Mucio Oliveira, Jose Nicolau, Pedro Lemos, Bernardo Lopes, Carlos Rochitte, Erica Viana, João Sbrano, Roberto Kalil-Filho, Thomas Porter, Program in Cardiology, Faculty of Medicine, University of Sao Paulo, Sao Paulo, Brazil, University of Nebraska Medical Center, Omaha, NE, USA

10:40 a.m.

Question and Answer

10:45 a.m.

Reduction of Repeat Complete Transthoracic Echocardiograms Utilizing an Alert in the Electronic Medical Record For Improved Efficiency

David M. Harris, Karen Moore, Kim Labowsky, University of Cincinnati, Cincinnati, OH, USA

10:55 a.m.

Question and Answer

11:00 a.m.

Integration of Echocardiographic Screening by Non-Physicians With Remote Reading in Primary Care: Data From the PROVAr+ Study

Bruno Ramos Nascimento, Craig Sable, Maria do Carmo Nunes, Marcia Barbosa, Kaciane K. B. Oliveira, João Pedro Rios, Karlla C. A. Lauriano, Tainá V. Lourenço, Isabella M. Teixeira, Gabriela Z. L. Ruiz, Letícia Maria M. Rabelo, Antonio Ribeiro, Andrea Beaton, Hospital das Clínicas da Universidade Federal de Minas Gerais, Belo Horizonte - MG, Brazil, Children's National Health System, Washington, DC, USA

11:10 a.m.

Question and Answer

11:15 a.m.

The Prognostic Ability of Layer-Specific Strain by 2-Dimensional Speckle Tracking Echocardiography in Stable Angina Pectoris  
Christoffer Hagemann, Søren Hoffmann, Rikke Andersen, Philip Brainin, Thomas Fritz-Hansen, Flemming Javier Olsen, Peter Jørgensen, Jan Jensen, Tor Biering-Sørensen, Department of Cardiology, Gentofte Hospital, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark

11:25 a.m.

Question and Answer

11:30 a.m.

Quantification of Reverse Takotsubo Pattern in Patients With Subarachnoid Hemorrhage by Longitudinal Strain  
Nobuyuki Kagiya, Yuko Soyama, Elizabeth A. Crago, Masataka Sugahara, Nina E. Hasselberg, Theodore Lagattuta, Khalil Moh'd Yousef, Marilyn Hravnak, John Gorcsan III, Washington University in St. Louis, St. Louis, MO, USA, University of Pittsburgh, Pittsburgh, PA, USA

11:40 a.m.

Question and Answer

11:45 a.m.

The Use of Machine Learning to Predict Doxorubicin Cardiotoxicity  
Henry Cheng, Qiang Zheng, Xiaofeng Zhu, Amanda M. Smith, Yiwen Qian, Rupal O'Quinn, Frank E. Silvestry, Yuchi Han, Marielle Scherrer-Crosbie, Victor Ferrari, Kevin Duffy, Dinesh Jagasia, Christos Davatzikos, Yong Fan, Bonnie Ky, Hospital of the University of Pennsylvania, Philadelphia, PA, USA

11:55 a.m.

Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Scientific - Session #612**

**Echocardiography: What Is New and Innovative in 2018?**

**Saturday, March 10, 2018, 12:15 p.m. - 1:45 p.m.**

**Room 311 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair Allan L. Klein

Co-Chair Neil J. Weissman

Panelist: Federico M. Asch

Panelist: Jonathan R. Lindner

Panelist: Randolph P. Martin

Panelist: Sherif F. Nagueh

Panelist: Nishath Quader

Panelist: Flordeliza Villanueva

12:15 p.m.

Machine Learning - It Will Change Everything!

Randolph P. Martin

Atlanta, GA

12:33 p.m.

3D Printing - Now I Can Hold My Echo in My Hand



Sherif F. Nagueh  
Houston, TX

12:51 p.m.  
Interventional Echo Like You Never Imagined  
Nishath Quader  
Saint Louis, MO

1:09 p.m.  
A New Level of Diagnostic Accuracy With Molecular Imaging  
Jonathan R. Lindner  
Portland, OR

1:27 p.m.  
Panel Discussion

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #613**  
**Peri-Procedural Imaging in Structural Heart Diseases: Updates and Case Reviews**  
**Saturday, March 10, 2018, 12:15 p.m. - 1:45 p.m.**  
**Room 308 A**  
**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair Salvatore P. Costa  
Co-Chair Jonathan Passeri

12:15 p.m.  
TAVR: Echo Imaging Update - Optimal Pre, Intra, and Post Imaging  
Rebecca T. Hahn  
New York, NY

12:30 p.m.  
TAVR: CT Imaging Update - Optimal Pre and Post Imaging  
Raj R. Makkar  
Los Angeles, CA

12:45 p.m.  
Mitraclip: Intra-Procedural Imaging Tips and Tricks and the Follow-Up Echo  
Stephen Henry Little  
Houston, TX

1:00 p.m.  
TEE Imaging During LAA Closure: Pearls From Case Reviews  
Eric Williams  
Lebanon, NH

1:15 p.m.  
Cardiac CT in TMVR and LAA Closure  
Philipp Blanke  
Vancouver, Canada

1:30 p.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Poster Contributions - Session #1160**

**Echocardiography in Valvular Heart Disease**

**Saturday, March 10, 2018, 1:30 p.m. - 4:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

311 - Aortic Valve Area Using Cardiac Computed Tomography to Improve the Validity of Left Ventricular Outflow Tract Measurement (ACTIV:LVOT Study)  
Ebrahim Alskaf, Attila Kardos, Milton Keynes University Hospital, Milton Keynes, United Kingdom

312 - Transthoracic Echocardiography to Assess For Valvular Heart Disease: Appropriate Use Criteria and Echocardiography Findings  
Tamryn Law, Zachary Bouck, Cindy Yin, Gillian Nesbitt, Amer Johri, Kibar Yared, Jeremy Edwards, Mark Hansen, Rory Weiner, Sacha Bhatia, University of Toronto, Toronto, Canada

313 - Impact of Left Ventricular Diastolic Function and Survival in Patients With Severe Aortic Stenosis Undergoing Transcatheter Aortic Valve Replacement  
Kimi Sato, Serge Harb, Arnav Kumar, Samir Kapadia, Stephanie Mick, Amar Krishnaswamy, Milind Desai, Brian Griffin, L. Leonardo Rodriguez, E. Murat Tuzcu, Lars Svensson, Zoran Popovic, Cleveland Clinic, Cleveland, OH, USA

314 - Multimodality Non-Invasive Assessment of Tricuspid Regurgitation: Comparison of Different Imaging Parameters  
Menhel Kinno, Richard Matiasz, Sasan Raissi, Kristoff Olson, Laura Davidson, Vibhav Rangarajan, Mark Ricciardi, Charles Davidson, Patrick McCarthy, Jyothy Puthumana, James Thomas, Northwestern University, Chicago, IL, USA

315 - Size, Ejection Fraction and Longitudinal Strain Analyses to Assess Remodeling in All 4 Cardiac Chambers Following Transcatheter Aortic Valve Replacement  
Diego Medvedofsky, Tatsuya Miyoshi, Toby Rogers, Linzhi Xu, Itsik Ben-Dor, Lowell Satler, Rebecca Torguson, Ron Waksman, Federico Asch, MedStar Health Research Institute, Washington, DC, USA, MedStar Washington Hospital Center, Washington, DC, USA

316 - Does Left Ventricular Global Longitudinal Strain Differentiate Low-Flow, Low-Gradient Severe Aortic Stenosis Patients in Addition to Conventional Contractile Reserve Assessment?  
Tatsuya Miyoshi, Diego Medvedofsky, Kyle Buchanan, Toby Rogers, Linzhi Xu, Itsik Ben-Dor, Lowell Satler, Rebecca Torguson, Ron Waksman, Federico Asch, MedStar Health Research Institute, Washington, DC, USA

317 - Evaluation of Burden of Rheumatic Heart Disease Among School Children in North-West India by Echocardiography Using World Heart Federation Criteria: A Preliminary Report  
Rajababu Panwar, Balkrishna Gupta, Dinesh Chaudhary, Sadik Panwar, Rajasthan University of Health Sciences, Jaipur, India

318 - Right Ventricular Mechanical Dispersion by Strain Echocardiography Impacts Prognosis in Significant Tricuspid Regurgitation



Edgard Alexander Prihadi, Omar Pappalardo, Pieter van der Bijl, Rachid Abou, Elise Vollema, Nina Marsan, Victoria Delgado, Jeroen J. Bax, Leiden University Medical Center, Leiden, The Netherlands

319 - Relative Contribution of Afterload and Interstitial Tissue Fibrosis to Pre-Operative Longitudinal and Circumferential Function in Patients With Severe Aortic Stenosis  
Alisson Slimani, Julie Melchior, Clotilde Roy, Christophe De Mesteer, Amzulescu Mihaela, Sophie Pierard, Christophe Beauloye, David Vancraeynest, Anne-Catherine Pouleur, Agnes Pasquet, Bernhard Gerber, Jean-Louis Vanoverschelde, Cliniques Universitaires Saint Luc, Brussel, Belgium

320 - 3D Mitral Valve Quantitation Predicts Procedural Success During Transcatheter Mitral Valve Repair  
Didem Oguz, Mackram Eleid, Sunil V. Mankad, Sorin Pislaru, Youssef Maalouf, Vuyisile Nkomo, David R. Holmes, Guy Reeder, Charanjit Rihal, Jeremy Thaden, Mayo Clinic, Rochester, MN, USA

321 - Does High Dose Doxorubicin Based Chemotherapy Induce Cardiotoxicity in Patients With Sarcoma? Results From a Pilot Retrospective Study  
Juan Simon Rico Mesa, Maria Arciniegas, Laura B. Garcia Bello, Harika Dasari, Steven I. Robinson, Joerg Herrmann, Randolph S. Marks, Scott H. Okuno, Hector R. Villarraga, Mayo Clinic, Rochester, MN, USA

322 - Evaluation of the Performance of the World Heart Federation Criteria For Echocardiographic Diagnosis of Rheumatic Heart Disease: Data From the PROVAR Study  
Bruno Ramos Nascimento, Maria do Carmo Nunes, Craig Sable, Emily M. Lima, Enrico Antonio Colosimo, Rodrigo C. P. Reis, Clara L. Fraga, Allison R. Tompsett, Antonio Ribeiro, Andrea Beaton, Hospital das Clínicas da Universidade Federal de Minas Gerais, Belo Horizonte - MG, Brazil, Children's National Health System, Washington, DC, USA

323 - Prognostic Value of Left Ventricular Global Longitudinal Strain Patients With Bicuspid Aortic Valve Disease and Preserved Left Ventricular Ejection Fraction  
William K. F. Kong, Vasileios Kamperidis, Madelien Regeer, Arnold Ng, Miriam Shanks, Kian Keong Poh, Bogdan Popescu, Philippe Van Rosendael, Victoria Delgado, Jeroen J. Bax, Leiden University Medical Centre, Leiden, The Netherlands, National University Medical Centre, Singapore, Singapore

324 - Semi-Automated Quantification of Tricuspid Valve Dynamics and Structure Is Feasible in Children Using Three-Dimensional Echocardiography  
Mary Craft, Ling Li, Karima Addetia, Federico Veronesi, David Danford, Denisa Muraru, Shelby Kutty, University of Nebraska Medical Center, Omaha, NE, USA, Children's Hospital and Medical Center, Omaha, NE, USA

325 - Significance of 6-Minute Walk Stress Echocardiography For Patients With Aortic Stenosis  
Kentaro Shibayama, Nahoko Kato, Masahiko Noguchi, Yu Makihara, Hiroshi Okumura, Kotaro Obunai, Hiroyuki Watanabe, Tokyo Bay Urayasu and Ichikawa Medical Center, Urayasu, Japan

326 - Hemodynamic Parameters and Diastology of Paradoxical Low Flow-Low Gradient Severe Aortic Stenosis With Normal Ejection Fraction Patients Undergoing Transcatheter Aortic Valve Replacement  
Allan Chen, Aarti Patel, Vishal Parikh, Gregory Coffman, Allen Brown, Christiano Caldeira, Tom Sullebarger, Robert Hooker, Fadi Matar, Arthur Labovitz, University of South Florida, Tampa, FL, USA

327 - Morphological Characteristics of Lead-Associated Masses and Risk of Infective Endocarditis  
Nilarun Chowdhuri, Amita Singh, Emmanuel Quaidoo, Ahmed Shahab, Kirk Spencer, Roberto Lang, Gaurav Upadhyay, University of Chicago, Chicago, IL, USA

328 - Natural History of Left Ventricular Global Longitudinal Strain in Patients With Asymptomatic Severe Aortic Stenosis Before Aortic Valve Intervention  
Elise Mara Vollema, Arnold Ng, Nina Marsan, Victoria Delgado, Jeroen J. Bax, Leiden University Medical Centre, Leiden, The Netherlands

329 - Delayed Time to Peak Strain Identifies Mitral Valve Prolapse Patients at Higher Arrhythmic Risk  
Simon Ermakov, Radhika Gulhar, Lisa Lim, Dwight Bibby, Zian Tseng, Theodore Abraham, Gregory Nah, Francesca Delling, University of California, San Francisco, San Francisco, CA, USA

330 - Assessment of Right Ventricular Systolic Function by Global Longitudinal Strain Within 1 Month After Transcatheter Aortic Valve Replacement  
Michael Tanoue, Brian West, Heajung Nguyen, Dhananjay Chatterjee, Troy Sekimura, Gabriel Vorobiof, Eric H. Yang, Olcay Aksoy, University of California Los Angeles, Department of Cardiology, Los Angeles, CA, USA

331 - The Hemodynamic Impact of Mitral Regurgitation, Left Atrial Dynamics, and Right Ventricular to Pulmonary Circulation Coupling During Exercise on Cardiopulmonary Exercise Performance and Clinical Outcome in Left Heart Disease  
Tadafumi Sugimoto, Francesco Bandera, Greta Generati, Eleonora Alfonzetti, Vincenzo Tufaro, Marco Guazzi, IRCCS Policlinico San Donato, Milano, Italy

332 - The Role of Mitral Regurgitation, Left Atrial Dynamics, and Right Ventricular to Pulmonary Circulation Coupling During Exercise on Cardiopulmonary Exercise Performance in Left Heart Disease  
Tadafumi Sugimoto, Francesco Bandera, Greta Generati, Eleonora Alfonzetti, Vincenzo Tufaro, Marco Guazzi, IRCCS Policlinico San Donato, Milano, Italy

333 - Comparing the Impact of Concomitant Significant Mitral Regurgitation on the Echocardiographic Profile of Patients With Low-Flow Versus Normal-Flow Severe Aortic Stenosis and Preserved Left Ventricular Ejection Fraction  
Nicholas Ngiam, Nicholas Chew, Rebecca Teng, Jonathan D. Kochav, Stephanie Kochav, Edgar Tay, Tiong Cheng Yeo, Kian Keong Poh, National University Heart Centre Singapore, National University Health System, Singapore, Singapore



334 - Characteristics of Persistent Tricuspid Regurgitation After Transcatheter Aortic Valve Replacement

Jun Yoshida, Atsushi Hayashi, Satoshi Yamaguchi, Takafumi Nagaura, Tetsuo Kamiyama, Raj Makkar, Robert Siegel, Florian Rader, Takahiro Shiota, Cedars Sinai Medical Center, Los Angeles, CA, USA

335 - Systolic Impedance and Diastolic Wall Stress are Novel Predictors of Heart Failure Hospitalizations in Patients Undergoing Transcatheter Aortic Valve Replacement

Aishwarya Bhardwaj, Abhishek Sawant, Rosemary Hansen, Priya Sadawarte, Nikhil Agrawal, Tharmathai Ramanan, Everett Sinibaldi, Ankush Lahoti, Arnav Kumar, Kimi Sato, Stanley Fernandez, Umesh Sharma, Vijay Iyer, University at Buffalo, Buffalo, NY, USA

336 - Different Influence of MitraClip Therapy on Mitral Valve Geometry Between Patients With Atrial and Functional Mitral Regurgitation: A Real Time Three-Dimensional Transesophageal Echocardiography Study

Takafumi Nagaura, Atsushi Hayashi, Satoshi Yamaguchi, Jun Yoshida, Tetsuo Kamiyama, Florian Rader, Robert Siegel, Saibal Kar, Takahiro Shiota, Cedars Sinai Medical Center, Los Angeles, CA, USA

337 - Strain Echocardiography Predicts Differences in Outcomes Between Transapical and Transfemoral Transcatheter Aortic Valve Replacement

Mirette Fahim, Cristina Pislaru, Vuyisile Nkomo, Patricia Pellikka, Ahmed Elamragy, Mera Fahim, Hesham Taha, Mackram Eleid, Kevin Greason, Sorin Pislaru, Mayo Clinic, Rochester, MN, USA, Cairo University, Cairo, Egypt

338 - Estimation of Central Venous Pressure in Patients on Mechanical Ventilation

Rupesh Ranjan, Yaser Alhamshari, Georgios Lygouris, Vincent Figueredo, Raina Sinha, Gregg Pressman, Nelson Schiller, Einstein Medical Center, Philadelphia, PA, USA, University of California, San Francisco, CA, USA

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1161

#### Non Invasive Imaging: Prognostic Utility of Cardiovascular Magnetic Resonance

Saturday, March 10, 2018, 1:30 p.m. - 4:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

339 - Diagnostic Value of Transluminal Attenuation Gradient For the Presence of Ischemia as Defined by Fractional Flow Reserve and Quantitative Positron Emission Tomography

Michiel Bom, Roel Driessen, Wijnand Stuijzand, Pieter Rajmakers, Cornelis Van Kuijk, Adriaan Lammertsma, Albert van Rossum, Niels Van Royen, Juhani Knuuti, Maija Mäki, Koen Nieman, James K. Min, Jonathon Leipsic, Ibrahim Danad, Paul Knaapen, VU University Medical Center, Amsterdam, The Netherlands

340 - Left Ventricular Mechanical Dispersion in Ischemic Cardiomyopathy: Association With Myocardial Scar Burden and Prognostic Implications

Rachid Abou, Edgard Prihadi, Laurien Goedemans, Rob Van Der Geest, Martin Schalij, Nina Ajmone Marsan, Jeroen J. Bax, Victoria Delgado, Leiden University Medical Center, Leiden, The Netherlands

341 - Left Ventricular Global Circumferential and Longitudinal Strain With Feature Tracking Cardiovascular Magnetic Resonance Assessment After ST-Segment Elevation Myocardial Infarction: Prognostic Implications

Tomaz Podlesnikar, Gonzalo Pizarro, Rodrigo Fernandez-Jimenez, Jose Manuel Montero Cabezas, Javier Sanchez-Gonzalez, Nina Ajmone Marsan, Chiara Bucciarelli-Ducci, Zlatko Fras, Valentin Fuster, Jeroen J. Bax, Borja Ibanez, Victoria Delgado, Leiden University Medical Center, Leiden, The Netherlands

342 - Metabolically Healthy and Unhealthy Obesity and Changes in Left Ventricular Mass, Volume and Function by Cardiac Magnetic Resonance Imaging: Results From the Multi-Ethnic Study of Atherosclerosis

Diana Glovaci, David A. Bluemke, Matthew Budoff, Laurence Sperling, Dan Gaita, Morgana Mongraw-Chaffin, Maria E. P. Trejo, Matthew Allison, Nathan Wong, University of California Irvine Medical Center, Orange, CA, USA

343 - Long-Term Effects of Angiotensin Converting Enzyme Inhibitor on Left Ventricular Ejection Fraction in Duchenne and Becker Muscular Dystrophy: A Longitudinal Cardiac Magnetic Resonance Imaging Study

Tadao Aikawa, Atsuhito Takeda, Noriko Oyama-Manabe, Masanao Naya, Hirokuni Yamazawa, Kazuhiro Koyanagawa, Yoichi M. Ito, Yuka Ishikawa, Yukitoshi Ishikawa, Toshihisa Anzai, Hokkaido University, Sapporo, Japan

344 - Diffuse Interstitial Myocardial Fibrosis Is Associated With Abnormal Left Atrial Mechanics

Julio A. Chirinos, Amer A. Syed, Rachana Miller, Khuzaima Javaid, Harry Oldland, Bilal Ansari, Anila Hussain, Swapna Varakantam, Jonathan Lee, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

345 - Prognostic Utility of Phase Contrast Cine-Magnetic Resonance Imaging of Coronary Sinus After ST-Segment Elevation Myocardial Infarction

Yoshinori Kanno, Taishi Yonetsu, Yoshihisa Kanaji, Eisuke Usui, Masahiro Hoshino, Masahiro Hada, Tadashi Fukuda, Yohei Sumino, Hiroaki Ohya, Rikuta Hamaya, Tsunekazu Kakuta, Tsuchiura General Hospital, Tsuchiura City, Japan

346 - Left Atrial Remodeling Is a Progressive Phenomenon Accelerated by Atrial Fibrillation: Comparison Between Patients Without and With Atrial Fibrillation

Christian Mahnkopf, Marcel Mitlacher, Mathias Forkmann, Sonia Busch, Johannes Brachmann, Klinikum Coburg, Department of Cardiology, Coburg, Germany

347 - Impact of Cardiac Magnetic Resonance on Clinical Management



Hesam Keshmiri, Alzoubi Moamen, Daniel Vilchez, Ibett Colina, Sorin Danciu, Advocate Illinois Masonic Medical Center, Chicago, IL, USA

348 - Risk Associated With Myocardial Fibrosis Is Modulated by the Extent of Left Ventricular Remodeling Due to Non-Ischemic Cardiomyopathy

Nishant Shah, Sharif Sabe, Nancy Obuchowski, Ahmed Bafadel, Karim Adurrehman, Scott Flamm, Wai Hong Tang, Brian Griffin, Deborah Kwon, Cleveland Clinic Foundation, Cleveland, OH, USA

349 - A Novel Clinical Risk Model For the Prediction of Progression of Ischemic Mitral Regurgitation in Patients With Advanced Ischemic Cardiomyopathy: A Multi-Modality Study

Natalie Ho, Kenya Kusunose, Nancy Obuchowski, Julijana Conic, Scott Flamm, Brian Griffin, Deborah Kwon, Cleveland Clinic, Cleveland, OH, USA, University of Tokushima, Tokushima, Japan

350 - Prognostic Utility of Phase Contrast Cine-Magnetic Resonance Imaging of Coronary Sinus After Non-ST-Segment Elevation Myocardial Infarction

Yoshihisa Kanaji, Taishi Yonetsu, Eisuke Usui, Masahiro Hoshino, Yohei Sumino, Hiroaki Ohya, Tadashi Fukuda, Rikuta Hamaya, Yoshinori Kanno, Tsunekazu Kakuta, Tsuchiura Kyodo Hospital, Tsuchiura, Japan

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Poster Contributions - Session #1162

##### Non Invasive Imaging: Go With the Flow

**Saturday, March 10, 2018, 1:30 p.m. - 4:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

351 - Importance of Site Measurement on Interpretation or Fractional Flow Reserve by Coronary Computed Tomography Angiography: Reclassification of Positive and Negative Results  
Elvis Cami, Travis Tagami, Gilbert Raff, Michael Gallagher, A. Neil Bilolikar, Kavitha Chinnaiyan, Austin Fan, Adam Hafeez, Robert Safian, Beaumont Health, Royal Oak, MI, USA

352 - Profiles of Fractional Flow Reserve Derived From Computed Tomography Angiography (FFRCT) in Patients With Coronary Artery Disease

Elvis Cami, Travis Tagami, Gilbert Raff, Michael Gallagher, Kavitha Chinnaiyan, A. Neil Bilolikar, Austin Fan, Adam Hafeez, Robert Safian, Beaumont Health, Royal Oak, MI, USA

353 - Angiographic Fractional Flow Reserve Estimated From Two Image Projections Acquired by a Biplane C-Arm System: Comparison With Invasive Fractional Flow Reserve  
Jiro Ando, Katharina Otani, Shun Minatsuki, Hironobu Kikuchi, Toshiro Inaba, Arihiro Kiyosue, Satoshi Kodera, Issei Komuro, The University of Tokyo Hospital, Tokyo, Japan

354 - [<sup>18</sup>F] Flurpiridaz PET Myocardial Flow Reserve Quantification Using Pharmacologic and Treadmill Exercise Stress Testing  
Kai Yi Wu, Nicole Kaps, Joel Lazewatsky, Cesare Orlandi, Rob Beanlands, Robert deKemp, University of Ottawa Heart Institute, Ottawa, Canada, Lantheus Medical Imaging, North Billerica, MA, USA

355 - Referral of Patients For Fractional Flow Reserve Using Coronary Contrast-Flow Quantitative Flow Ratio

Jeff Smit, Gerhard Koning, Alexander van Rosendael, Mohammed El Mahdiui, Bart Mertens, Johan Jukema, Victoria Delgado, Johan Reiber, Jeroen J. Bax, Arthur Scholte, Leiden University Medical Center, Leiden, The Netherlands

356 - Optimal Cut-Off Value of Non-Invasive Fractional Flow Reserve For Coronary Revascularization Using a Combination of Nuclear Cardiology in Patients With Stable Coronary Artery Disease

Koyuru Monno, Shunichi Yoda, Takumi Hatta, Takashi Mineki, Yasuyuki Suzuki, Naoya Matsumoto, Atsushi Hirayama, Nihon University School of Medicine, Department of Cardiology, Tokyo, Japan

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Scientific - Session #627

##### Cardio-oncology Imaging: How to Do It Right

**Saturday, March 10, 2018, 2:00 p.m. - 3:30 p.m.**

**Room 311 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Victor A. Ferrari

Co-Chair: Richard M. Steingart

2:00 p.m.

Fundamentals of Cardio-Oncology: What the Imager Needs to Know

Bonnie Ky

Philadelphia, PA

2:15 p.m.

Case Presentation: Does This Patient Have Cardio-Toxicity?

Viet T. Le

UT

2:20 p.m.

Applying Imaging Guidelines to Diagnose Cardio-Toxicity

Ana Barac

Washington, DC

2:35 p.m.

Case Presentation: Should This Patient Continue Cancer Therapy?

Joshua Mitchell

Kirkwood, MO

2:40 p.m.

Applying Imaging Guidelines for Therapeutic Monitoring

Monika Jacqueline Leja

Ann Arbor, MI

2:55 p.m.

Newer Imaging Parameters to Diagnose the Cardiovascular Effects of Chemo and Radiotherapy

Paaladinesh Thavendiranathan

Markham, Canada

3:10 p.m.

Question and Answer



### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Scientific - Session #628

#### Controversies in Cardiac CT

Saturday, March 10, 2018, 2:00 p.m. - 3:30 p.m.

Room 308 A

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Pamela S. Douglas

Co-Chair: Fay Lin

2:00 p.m.

Debate Pro: Calcium Scoring Is Effective and Efficient in Symptomatic Patients

Koen Nieman

Stanford, CA

2:10 p.m.

Debate Con: Calcium Scoring Is Effective and Efficient in Symptomatic Patients

Todd C. Villines

Rockville, MD

2:20 p.m.

Rebuttal - Pro

Koen Nieman

Stanford, CA

2:22 p.m.

Rebuttal - Con

Todd C. Villines

Rockville, MD

2:24 p.m.

Debate Pro: Coronary CTA is 1st Line in Patients With Chest Pain: NICE Got it Right!

Ed Nicol

London, United Kingdom

2:34 p.m.

Debate Con: Coronary CTA is 1st Line in Patients With Chest Pain: NICE Got it Right!

Marcelo F. Di Carli

Boston, MA

2:44 p.m.

Rebuttal - Pro

Ed Nicol

London, United Kingdom

2:46 p.m.

Rebuttal - Con

Marcelo F. Di Carli

Boston, MA

2:48 p.m.

Debate Pro: Coronary CTA: The Test of Choice in the ED

Kavitha Chinnaiyan

Royal Oak, MI

2:58 p.m.

Debate Con: Coronary CTA: The Test of Choice in the ED

James L. Januzzi

Wellesley, MA

3:08 p.m.

Rebuttal

Kavitha Chinnaiyan

Royal Oak, MI

3:10 p.m.

Rebuttal - Con

James L. Januzzi

Wellesley, MA

3:12 p.m.

Panel Discussion With Question and Answer

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Core Curriculum - Session #804

#### Imaging the Heart: Choosing Wisely

Saturday, March 10, 2018, 2:00 p.m. - 3:30 p.m.

Room 207 A

CME Hours: 1.5 /CNE Hours: 1.5

Chair: Sunil V. Mankad

2:00 p.m.

Echo & Strain Imaging: How to Incorporate Into Clinical Practice

Thomas H. Marwick

Melbourne VIC, Australia

2:20 p.m.

Multimodality Imaging in Heart Failure: Which is the Right Imaging Tool?

Alex J. Auseon

Chicago, IL

2:40 p.m.

Testing Wisely, AUC, RUC: What Cardiologists Need to Be Mindful Of

Prem Soman

Pittsburgh, PA

3:01 p.m.

Panel Discussion Moderator

Sunil V. Mankad

Rochester, MN

3:01 p.m.

Panel Discussion with Question and Answer

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Moderated Poster Contributions - Session #1177M

#### Novel Nuclear Imaging Applications

Saturday, March 10, 2018, 3:45 p.m. - 4:30 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster Hall, Hall A/B

CME Hours: /CNE Hours:

ACC Poster Moderator: Michael W. Cullen

ACC Poster Moderator: Michelle Claire Williams



3:45 p.m.

Angiotensin Receptor Neprilysin Inhibitor Therapy Promotes Early Angiogenesis and Improves Myocardial Perfusion Inhibiting Post-Infarct Remodeling

Stephanie L. Thorn, Daniela Tirziu, Daniel Pfau, Nicole Mikush, Jiasheng Zhang, Jennifer Renaud, Ran Klein, Robert deKemp, Xiaohong Wu, Xiaoyue Hu, Lawrence Young, Albert Sinusas, Yale University School of Medicine, New Haven, CT, USA, The University of Ottawa Heart Institute, Ottawa, Canada

3:55 p.m.

Question and Answer

4:00 p.m.

Increased Aortic Wall Inflammation in Adult Patients After Successful Coarctation Repair Detected 18F-FDG PET/CT Imaging  
Evangelos Oikonomou, Alexios Antonopoulos, Stella Brili, Iosif Cutajar, Nikoletta Pianou, George Spyrou, Emmanouil Athanasiadis, Alexandros Georgakopoulos, Pavlos Kafouris, Gerasimos Siasos, Constantinos Anagnostopoulos, Dimitris Tousoulis, First Cardiology Clinic, 'Hippokraton' Hospital, National and Kapodistrian University of Athens, Athens, Greece

4:10 p.m.

Question and Answer

4:15 p.m.

Molecular Imaging of Coronary Atherosclerosis: Quantification and Reproducibility of Coronary 18F-Fluoride Positron Emission Tomography  
Philip D. Adamson, Alastair J. Moss, Mhairi K. Doris, Marc Dweck, David Newby, University of Edinburgh, Edinburgh, United Kingdom

4:25 p.m.

Question and Answer

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Scientific - Session #641

**Advanced Echocardiography for Complex Heart Disease: Joint Symposium of the American Society of Echocardiography and the American College of Cardiology**  
Saturday, March 10, 2018, 4:45 p.m. - 6:00 p.m.

Room 311 A

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Allan L. Klein

Co-Chair: Vera H. Rigolin

4:45 p.m.

Stress Echo for Aortic Valve Disease

Vera H. Rigolin

Chicago, IL

4:57 p.m.

Diastolic Function Assessment by Echo Using the New ASE Guideline

Allan L. Klein

Cleveland, OH

5:09 p.m.

Comprehensive Imaging of Cardiomyopathies

Mario J. Garcia

Bronx, NY

5:21 p.m.

What Can Myocardial Contrast Imaging Add to the Standard Echo?

Jonathan R. Lindner

Portland, OR

5:33 p.m.

Role of Strain and Deformation Imaging in Cardio-Oncology

Juan Carlos Plana

Houston, TX

5:45 p.m.

Question and Answer

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Scientific - Session #642

**Hypertrophic Cardiomyopathy: Multimodality Imaging and Invasive Hemodynamics**

Saturday, March 10, 2018, 4:45 p.m. - 6:00 p.m.

Room 308 A

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair: Barry J. Maron

Co-Chair: Mark V. Sherriid

Panelist: Milind Y. Desai

Panelist: Jeffrey Benjamin Geske

Panelist: Carolyn Ho

Panelist: Morton J. Kern

4:45 p.m.

Echocardiography in Hypertrophic Cardiomyopathy: Beyond the Wall Thickness

Jeffrey Benjamin Geske

Rochester, MN

4:55 p.m.

Question and Answer

5:00 p.m.

Cardiac MRI in Hypertrophic Cardiomyopathy: Who and When

Milind Y. Desai

Cleveland, OH

5:10 p.m.

Question and Answer

5:15 p.m.

Beyond Imaging: Invasive Hemodynamics in Hypertrophic Cardiomyopathy

Morton J. Kern

Orange, CA

5:25 p.m.

Question and Answer

5:30 p.m.

Genetics of Hypertrophic Cardiomyopathy: Implications for Imaging



Carolyn Ho  
Boston, MA

5:40 p.m.  
Panel Discussion

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Scientific - Session #654

#### Controversies in Echocardiography

Sunday, March 11, 2018, 8:00 a.m. - 9:30 a.m.

Room 311 A

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Vera H. Rigolin  
Co-Chair: Neil J. Weissman  
Panelist: Sondra M. DePalma

8:00 a.m.  
Controversies in Echocardiography  
Vera H. Rigolin  
Chicago, IL

8:00 a.m.  
3D Echo: Don't Make Me Read an Echo Without It  
Roberto M. Lang  
Chicago, IL

8:15 a.m.  
3D Echo: I Bought It and Still Never Use It  
Natesa G. Pandian  
Boston, MA

8:30 a.m.  
Rebuttal  
Roberto M. Lang  
Chicago, IL

8:32 a.m.  
Rebuttal  
Natesa G. Pandian  
Boston, MA

8:34 a.m.  
Interactive Panel Discussion

8:45 a.m.  
Embracing POCUS: I Want My Doctor in the Emergency Room Using POCUS  
Susan E. Wiegers  
Philadelphia, PA

9:00 a.m.  
HOCUS POCUS: If You Want a Quality Echo Then Come to the Echo Lab  
Kirk Spencer  
Chicago, IL

9:15 a.m.  
Rebuttal  
Susan E. Wiegers  
Philadelphia, PA

9:17 a.m.  
Rebuttal  
Kirk Spencer  
Chicago, IL

9:19 a.m.  
Interactive Panel Discussion

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Scientific - Session #655

#### Cardiovascular Molecular Imaging: Bench to Bedside

Sunday, March 11, 2018, 8:00 a.m. - 9:30 a.m.

Room 308 A

CME Hours: 1.5 /CNE Hours: 1.5

Co-Chair: Albert J. Sinusas  
Co-Chair: Flordeliza Villanueva

8:00 a.m.  
Imaging Inflammation Post Myocardial Infarction  
Albert J. Sinusas  
New Haven, CT

8:18 a.m.  
Molecular Imaging in Heart Failure  
Stephanie L. Thorn  
New Haven, CT

8:36 a.m.  
Microbubbles: Ultrasound Goes Molecular  
Jonathan R. Lindner  
Portland, OR

8:54 a.m.  
Imaging Atherosclerosis  
Ahmed A. Tawakol  
Wayland, MA

9:12 a.m.  
Panel Discussion

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1204

#### Non Invasive Imaging: Beyond the Coronary Arteries

Sunday, March 11, 2018, 9:30 a.m. - 12:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

311 - Reproduction of Process of LAA Occlusion With Tissue Simulated 3D Printed LA Models  
Hong-Ning Song, Qing Zhou, Yi-Jia Wang, Bo Hu, Rui-Qiang Guo, Renmin Hospital of Wuhan University, Wuhan, People's Republic of China

312 - Watchman Device Sizing: Is Multi-Detector Computed Tomography Superior to Transesophageal Echocardiography?  
Bo Xu, Jorge Betancor, Kimi Sato, Serge Harb, Karim Abdur Rehman, Kunal Patel, Arnav Kumar, Paul Cremer, Wael Jaber, L. Leonardo Rodriguez, Paul Schoenhagen, Oussama Wazni, Cleveland Clinic, Cleveland, OH, USA



313 - Multimodality Imaging in ICD Implantation Decision Making in Heart Failure Patients: Role of 123-Iodine Metaiodobenzylguanidine Imaging and Cardiac MRI  
Paola Scarpato, Nicolo' Salvi, Lucia Ilaria Birtolo, Viviana Frantellizzi, Paolo Severino, Massimo Mancone, Viviana Maestrini, Giuseppe De Vincentis, Francesco Fedele, Sapienza, Rome, Italy

314 - Incremental Value of Spectral Detector CT Using Low-Contrast For Pre-TAVR CT Angiography  
Amer Alaiti, Steven Van Hedent, Anas Fares, Sandeep M. Patel, Yasuhiro Ichibori, Rahul Thomas, Ahmad Alkhalil, Nils Grosse HoKamp, Sandeep Patel, Riki Kessner, Amar Dhanantwar, Mani Vembar, Pablo Ros, David Wilson, Mani Vembar, Robert Gilkeson, Sanjay Rajagopalan, Guilherme Attizzani, Hiram Bezerra, University Hospitals Harrington Heart and Vascular Institute, Cleveland, OH, USA, Case Western Reserve University, Cleveland, OH, USA

315 - Influence of Flow and Velocity Profile on Inconsistency in Echocardiographic Aortic Valve Stenosis Assessment: A Computed Tomography and Computational Flow Dynamics Study  
Tarun Mittal, Ed Nicol, Luise Reichmuth, Manish Jain, Aigul Baltabaeva, Shelley Rahman-Haley, Tito Kabir, Vasileios Panoulas, Saeed Mirsadraee, Miles Dalby, Quan Long, Royal Brompton & Harefield NHS Foundation Trust, London, United Kingdom, Brunet University, London, United Kingdom

317 - Incidence of Lung Cancer Among Solitary Pulmonary Nodules Incidentally Detected on Cardiac Computed Tomography Angiogram in a Multiethnic Population: Do We Incorporate Fleischner Guidelines 2017 Into Local Practice?  
Hong Jie Gabriel Tan, Jien Sze Ho, Yet Yen Yan, Haja Mohideen Salahudeen Mohamed, Lohendran Baskaran, Weng Kit Lye, Foong Koon Cheah, Terrance Chua, Swee Yaw Tan, National Heart Centre Singapore, Singapore, Singapore, Singapore General Hospital, Singapore, Singapore

318 - Aortic Tortuosity in Bicuspid Aortic Valve and Its Correlation With Clinical Outcomes  
Bader Aldeen Alhafez, Van T. T. Truong, Sahand Sohrabi, Harleen Sandhu, Anthony L. Estrera, Hazim Safi, Daniel Ocazonez, Siddharth Prakash, The University of Texas Health Science Center at Houston, Houston, TX, USA

319 - Hybrid Continuity Equation Using Multidetector CT and Echocardiography Aids Reclassifying Severity in Patients With Paradoxical Low Flow Low Gradient Severe Aortic Stenosis  
Daniel Kupsky, Waleed Al-Darzi, Gordon Jacobsen, Karthikeyan Ananthasubramaniam, Henry Ford Hospital, Detroit, MI, USA

320 - Pulmonary Vein Orientation Is Independently Associated With Outcomes Following Cryoballoon Based Atrial Fibrillation Ablation  
Duygu Kocyigit, Muhammed Ulvi Yalcin, Kadri Gurses, Selin Ardali, Gamze Turk, Ugur Canpolat, Banu Evranos, Hikmet Yorgun, Mehmet Levent Sahiner, Ergun Baris Kaya, Tuncay Hazirolan, Kudret Aytemir, Hacettepe University, Ankara, Turkey

321 - Identification of Patients at High Risk For Late Pacemaker Implantation Post Transcatheter Aortic Valve Replacement

Rong Liu, Guangming Zhang, Xiao Bo Zhou, David Zhao, Sanjay Gandhi, Neal Kon, Edward H. Kincaid, Pu Min, Wake Forest Baptist Medical Center, Winston Salem, NC, USA, Department of Cardiology, Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai, People's Republic of China

322 - Spectral Detector CT Assisted TAVR Planning: Initial Results From a Prospective Study  
Rahul Balan Thomas, Amer Alaiti, Anas Fares, Nils Grosse HoKamp, Rivka Kessner, Sadeer Al-Kindi, Ben Ravae, Les Ciancebello, Guilherme Attizzani, Hiram Bezerra, Robert Gilkeson, Sanjay Rajagopalan, UH Cleveland Medical Center, Cleveland, OH, USA

323 - Predicting Mortality With Aortomitral Calcifications in 317 TAVR Patients  
Martin Willeminck, Eva Maret, Kegan Moneghetti, Juyong Kim, Francois Haddad, Yukari Kobayashi, Kai Higashigaito, Alan Yeung, Anson Lee, D. Craig Miller, Michael Fischbein, William Fearon, Dominik Fleischmann, Stanford University School of Medicine, Stanford, CA, USA

324 - Impact of Anatomical Features of the Left Atrial Appendage on Outcomes After Cryoablation For Atrial Fibrillation  
Muhammed Ulvi Yalcin, Duygu Kocyigit, Kadri Gurses, Gamze Turk, Selin Ardali, Ugur Canpolat, Banu Evranos, Hikmet Yorgun, Mehmet Levent Sahiner, Ergun Baris Kaya, Tuncay Hazirolan, Kudret Aytemir, Hacettepe University, Ankara, Turkey

325 - Effect of 5-Lipoxygenase Inhibitor, VIA-2291, on Epicardial Fat Volume in Patients With Recent Acute Coronary Syndrome  
Shone Almeida, Matthew Budhoff, Los Angeles Biomedical Research Institute, Torrance, CA, USA

326 - Impact of Knowledge-Based Iterative Model Reconstruction on the Feasibility of Coronary Computed Tomography Angiography in Obese Patients  
Reza Revaldeen, Sarushen Gounden, Colin Jeffries, Bruno Jesuthasan, Shashi Ranjan, Prasad Challa, Arun Dahiya, Logan Hospital, Brisbane, Australia

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Poster Contributions - Session #1205**

**Non Invasive Imaging: Structural and Functional CMR Assessments in the Assessment of Cardiac and Aortic Dysfunction**

**Sunday, March 11, 2018, 9:30 a.m. - 12:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

327 - Impact of Magnetic Resonance Imaging in Non-Approved Cardiac Devices  
Lina Ya'goub, Marcia Price, Gail Kendall, Tina Baker, Alan Wimmer, Shaya Ansari, Stanley Fisher, Sanjaya Gupta, Ibrahim M. Saeed, Saint Luke's Mid America Heart Institute, Kansas City, MO, USA, Saint Luke's Marion Bloch Neuroscience Institute, Kansas City, MO, USA

328 - Improvement in Skin Disease Severity Is Associated With Reduced Progression of Aortic Wall Thickness in Patients With Psoriasis



Jacob Groenendyk, Parag Shukla, Agastya Belur, Amit Dey, Youssef Elnabawi, Justin Rodante, Aditya Goyal, Ahmed Sadek, Navya Nanda, Mark Ahlman, Aditya Joshi, Joel Gelfand, Martin Playford, Nehal Mehta, National Heart, Lung, and Blood Institute, Bethesda, MD, USA

329 - Foreign Metallic Bodies in the MRI Environment: Are They Safe? Can We Be Sure?

Robert W. W. Biederman, Loretta Gevenosky, Prabhakaran Gopalakrishnan, Ronald Williams, Richard Lombardi, Moneal Shah, Christopher Bonnet, Mark Doyle, Allegheny General Hospital, Pittsburgh, PA, USA

330 - Detection of Aneurysm of the Ascending Aorta in Hypertensive Patients

Jordan Long, Michael Burley, Daniel Morgenstern, Rohith Saikumar, J. Ronald Mikolich, Sharon Regional Health System, Sharon, PA, USA, Northeast Ohio Medical University, Rootstown, OH, USA

331 - Safety of Thoracic Magnetic Resonance Imaging in Patients With Pacemakers and Defibrillators

Deepak Padmanabhan, Danesh Kella, Niyada Naksuk, Abhishek Deshmukh, Siva Mulpuru, Suraj Kapa, Ramila Mehta, Connie Dalzell, Nora Olson, Joel Felmlee, Mary Lou Jondal, Samuel Asirvatham, Robert Watson, Yong-Mei Cha, Paul Friedman, Mayo Clinic, Rochester, MN, USA

332 - Evaluation of HIV-Associated Dyspnea Using Cardiac Magnetic Resonance Cardiopulmonary Exercise Testing (CMR-CPET)

Sadeer G. Al-Kindi, Rahul Thomas, Amer Alaiti, Ben Ravaee, Trevor Jenkins, Steven Sawicki, Nicole Seiberlich, Wei-Ching Lo, Evelyn Watson, Christopher Longenecker, Grace McComsey, Brian Hoit, Orlando Simonetti, Sanjay Rajagopalan, University Hospitals Cleveland Medical Center, Cleveland, OH, USA

333 - The Changes in Global Coronary Blood Flow After PCI Evaluated by Cardiovascular Magnetic Resonance Imaging and Their Relationship With Physiological Indices Obtained by a Pressure Wire

Yoshihisa Kanaji, Taishi Yonetsu, Eisuke Usui, Masahiro Hoshino, Yohei Sumino, Hiroaki Ohya, Tadashi Fukuda, Rikuta Hamaya, Yoshinori Kanno, Tsunekazu Kakuta, Tsuchiura Kyodo General Hospital, Tsuchiura, Japan

334 - A Novel Method For Internal Validation of Aortic Flow Using Phase-Contrast Cardiac Magnetic Resonance Imaging

Anweshan Samanta, Joseph Soltys, Harshal Patil, Ibrahim Saeed, Saint-Luke's Mid America Heart Institute, Kansas City, MO, USA, University of Missouri – Kansas City, Kansas City, MO, USA

335 - Comparison of 2D and 3D Strain Using Cardiovascular Magnetic Resonance Feature Tracking

James Nguyen, Marco Vezza, Rajasekhar Mulyala, Harsimar Singh, Jie Cao, St. Francis Hospital, The Heart Center, Roslyn, NY, USA

336 - Right Atrial Function in Heart Failure With Preserved and Reduced Ejection Fraction

Julio A. Chirinos, Vaibhav Satija, Swetha Gaddam, Rachana Miller, Khuzaima Javaid, Danny Kuriakose, Ilaina Edelstein, Yueya Ge,

Pritika Manaktala, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

337 - Left Atrial Function in Heart Failure With Preserved and Reduced Ejection Fraction

Julio A. Chirinos, Zeba Hashmath, Anila Hussain, Rushik Bhuvu, Swapna Varakantam, Jonathan Lee, Vaibhav Satija, Harry Oldland, Khuzaima Javaid, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

338 - Axial Sarcopenia, Subcutaneous, Abdominal Visceral and Pericardial Adiposity in Heart Failure With Preserved and Reduced Ejection Fraction

Julio A. Chirinos, Jessica Kim, Sowmya Gaddam, Jagan Vanjarapu, Dheera Tamvada, Bilal Ansari, Arpita Suri, Anique Mustafa, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Poster Contributions - Session #1206**

**Echocardiography For Assessing the Various Chambers: Right Ventricle, Atria, Sorta and Pericardium**

**Sunday, March 11, 2018, 9:30 a.m. - 12:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

339 - Quantitative Modeling of LV Inflow Characterizes Impaired Left Ventricular Function, Atrial Function and LV-LA Coupling

Julio A. Chirinos, Swetha Gaddam, Zeba Hashmath, Anila Hussain, Bilal Ansari, Jonathan Lee, Yueya Ge, Jessica Kim, Rachana Miller, Rushik Bhuvu, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

340 - Effect of Obesity on Left Atrial Strain in Middle Age: The Asklepios Study

Julio A. Chirinos, Marc De Buyzere, Jugal Chahwala, Vaibhav Satija, Patrick Segers, Dirk De Bacquer, Thierry Gillebert, Ernst Rietzschel, University of Pennsylvania, Philadelphia, PA, USA, Ghent University, Ghent, Belgium

341 - The Rising Prevalence of Dilated Mid Ascending Aorta: Measuring the Burden of Disease

Ji Ae Yoon, Mirza Mujadil Ahmad, Muhammad Nabeel Syed, Mirza Nubair Ahmad, Sharmeen Fatima Hussaini, Mustafa Noor Muhammad, Muhammad Harris Pir, Bijoy K. Khandheria, A. Jamil Tajik, Khawaja Afzal Ammar, Aurora Cardiovascular Services, Aurora Sinai and Aurora St. Luke's Medical Centers, Milwaukee, WI, USA

342 - Large Increases in Blood Pressure Are Associated With Mild Increases in Mid Ascending Aorta Diameter: An Echocardiographic Study

Sachin Shah, Mirza Mujadil Ahmad, Ahad Jahangir, A. Jamil Tajik, Bijoy K. Khandheria, Khawaja Afzal Ammar, Aurora Cardiovascular Services, Aurora Sinai and Aurora St. Luke's Medical Centers, Milwaukee, WI, USA

343 - Diagnosis and Differentiation of Acute Massive and Submassive From Subsegmental Pulmonary Embolism Using Novel Echocardiographic Methods



Aditya Sood, Mobeen Rehman, Arshad Ali Javed, Emmanuel Akintoye, Kartik Kumar, Manmohan Singh, Luis Afonso, Detroit Medical Center, Wayne State University, Detroit, MI, USA

344 - Assessment of Right Ventricular Performance: Comparison Between 2D-ECHO and Cardiac Magnetic Resonance

Wai Ling Jessica Poon, Xiaowan Tong, Kenji Shiino, Jonathan Chan, Ying Wah Andrew Li, Kit Chan, Ming-Yen Ng, Yuk Kong Lau, Ruttonjee Hospital, Hong Kong, Hong Kong

345 - Altered Right Ventricular Contractile Pattern After Cardiac Surgery: A Retrospective Study

Tin Trong Nguyen, Melissa Moey, Minh Tran, Rajasekhar Nekkanti, Kevin O'Brien, Hazaim Alwair, Alan Kypson, Assad Movahed, Brody School of Medicine at East Carolina University, Greenville, NC, USA

346 - Resolution of Left Atrial Thrombus in Nonvalvular Atrial Fibrillation With Oral Anticoagulation

Adam Niku, Takahiro Shiota, Robert J. Siegel, Florian Rader, Cedars-Sinai Medical Center, Los Angeles, CA, USA

347 - Evaluation of Global and Regional Right Ventricular Function Using Three Dimensional Speckle Tracking Echocardiography Specialized For Right Ventricle

Konomi Sakata, Yoichiro Uesugi, Aoi Isaka, Junnosuke Ito, Toshinori Minamishima, Mitsufumi Furuya, Touru Satoh, Hideaki Yoshino, Kyorin University School of Medicine, Tokyo, Japan

348 - Non-Invasive Assessment of Left Atrial Pressure Using Arterial Tonometry and Its Correlation With Tissue Doppler Echocardiography and Pulmonary Capillary Wedge Pressure

Rupesh Ranjan, Yaser Alhamshari, Sanjog Kalra, Aman Amanullah, Vincent Figueredo, Gregg Pressman, Einstein Medical Center, Philadelphia, PA, USA

349 - Right Atrial Pressure Estimates by 2D and 3D Inferior Vena Cava Measurements Are Discordant

Mohammed Essa, Peter Flueckiger, Robert McNamara, Lissa Sugeng, Jeffrey Testani, Ben Lin, Yale University School of Medicine, New Haven, CT, USA

350 - Computational Analysis of Right Ventricular Curvature by 3D Echocardiography: Implications on Pulmonary Hypertension Severity

Maria Chiara Palumbo, Francesco Bandera, Enrico Caiani, Eleonora Alfonzetti, Marco Guazzi, Politecnico di Milano, Milano, Italy

351 - Clinical Implication of Inducible Left Ventricular Outflow Tract Obstruction in Patients Undergoing Liver Transplant Evaluation

Antoine Addoumieh, Mouin Abdallah, Wael Jaber, William Carey, Allan Klein, David Majdalany, Cleveland Clinic Foundation, Cleveland, OH, USA

352 - Comparison of Commonly Used 2D Echocardiographic Measurements of Right Ventricular Size and Function to a Validated Complex 3D Model

Anjani Golive, Ayesha Salahuddin, Mohammed Algodi, Daniel Rodriguez, Daniel Spevack, Mario J. Garcia, Montefiore Medical Center, Bronx, NY, USA

353 - Echogenicity of the Atrium in Fetus Is Associated With Positive Maternal SSA/SSB Antibodies

Shuping Ge, Xiaowei Liu, Xiaoyan Gu, Jiancheng Han, Yihua He, Department 2 of Echocardiography Beijing Anzhen Hospital, Capital Medical University, Beijing, People's Republic of China, St. Christopher's Hospital for Children and Drexel University College of Medicine, Philadelphia, PA, USA

354 - Echocardiographic Assessment of Pericardial Effusion Size: Time For a Quantitative Approach

David DeMaria, Ashley Waring, David Gregg, Sheldon Litwin, Medical University of South Carolina, Charleston, SC, USA

355 - Chronic Kidney Disease Is Associated With Changes in Echocardiographic Measurements

Yaser Carcora, David Bach, Theodore Kolias, Brent Gallagher, Casey McCarter, Troy LaBounty, University of Michigan, Ann Arbor, MI, USA

356 - Right Ventricular Load Adaptability in Patients Undergoing Continuous-Flow Left Ventricular Assist Device Implantation

Myriam Amsellem, Marie Aymami, William Hiesinger, Sanford Zeigler, Kegan Moneghetti, Michael Marques, Matthew Wheeler, Jeffrey Teuteberg, Richard-Tien Ha, Dipanjan Banerjee, Francois Haddad, Stanford University, Stanford, CA, USA

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Moderated Poster Contributions - Session #1220M**

**Non Invasive Multi-Modality Imaging**

**Sunday, March 11, 2018, 9:45 a.m. - 10:30 a.m.**

**Non Invasive Imaging Moderated Poster Theater, Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

ACC Poster Moderator: Petros Nihoyannopoulos

ACC Poster Moderator: Lucy Safi

9:45 a.m.

Incremental Value of Right Ventricular Strain and 3D Echo Compared to Conventional Echo Approaches For Detection of Cardiac MRI (CMR) Evidenced Right Ventricular Dysfunction in Ischemic Mitral Regurgitation

Javid Alakbarli, Farhan Raza, Tara Shah, Meridith P. Pollie, Athena Poppas, Richard B. Devereux, Jonathan W. Weinsaft, Jiwon Kim, Weill Cornell Medical College, New York, NY, USA

9:55 a.m.

Question and Answer

10:00 a.m.

Comparison Between Three-Dimensional Echocardiography and Computed Tomography For Tricuspid Annulus Sizing: Implications For the Grading of Tricuspid Regurgitation Using the Quantitative Doppler Method

Fabien Praz, Omar Khalique, Leon Dos Reis Macedo, Jennifer Jantz, Codner Pablo, Amisha Patel, Juan Terre, Torsten Vahl, Vinayak Bapat, Isaac George, Tamim Nazif, Susheel K. Kodali,



Martin B. Leon, Rebecca T. Hahn, Columbia University Medical Center/New York Presbyterian, New York, NY, USA

10:10 a.m.  
Question and Answer

10:15 a.m.  
Strain Imaging Techniques to Predict Cardiac Resynchronization Therapy Response: A Head-to-Head Comparison of Cardiac Magnetic Resonance Myocardial Tagging, Feature Tracking and Speckle Tracking Echocardiography  
Alwin Zweerink, Wouter van Everdingen, Robin Nijveldt, Albert van Rossum, Odette A. E. Salden, Mathias Meine, Alexander Maass, Kevin Vernooy, Frederik de Lange, Pierre Croisille, Patrick Clarysse, Bastiaan Geelhoed, Michiel Rienstra, Isabelle Van Gelder, Marc Vos, Maarten Jan Cramer, Cornelis Allaart, VU University Medical Center, Amsterdam, The Netherlands, University Medical Centre Utrecht, Utrecht, The Netherlands

10:25 a.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #668**  
**The Great Debate: Should We Image Simply Because We Can?**

**Sunday, March 11, 2018, 10:45 a.m. - 12:15 p.m.**  
**Room 311 A**  
**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair Prem Soman  
Co-Chair James Udelson

10:45 a.m.  
Plaque Vulnerability: PRO  
Jagat Narula  
New York, NY

11:00 a.m.  
Plaque Vulnerability: CON  
Armin Arbab-Zadeh  
Baltimore, MD

11:15 a.m.  
Left Ventricular Dyssynchrony: PRO  
Ernest V. Garcia  
Atlanta, GA

11:30 a.m.  
Left Ventricular Dyssynchrony: CON  
Samir F. Saba  
Pittsburgh, PA

11:45 a.m.  
LVAD Assessment: Echo Is All I Need  
Marielle Scherrer-Crosbie  
Bala Cynwyd, PA

12:00 p.m.  
LVAD Assessment: Multimodality Is a Must

Gaby Weissman  
Washington, DC

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #669**  
**Cardiac Amyloidosis: The Right Test for the Right Patient**  
**Sunday, March 11, 2018, 10:45 a.m. - 12:15 p.m.**  
**Room 308 A**  
**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair James C. Fang  
Co-Chair Keyur B. Shah  
Panelist: Martha Grogan  
Panelist: Geoffrey Johnson  
Panelist: Rekha Mankad  
Panelist: Michael Salerno

10:45 a.m.  
Echocardiographic Characteristics of Cardiac Amyloidosis: Making the Diagnosis  
Rekha Mankad  
Rochester, MN

10:57 a.m.  
Question and Answer

11:03 a.m.  
Cardiac Amyloidosis: Utility of Cardiac MRI  
Michael Salerno  
Charlottesville, VA

11:15 a.m.  
Question and Answer

11:21 a.m.  
Subtyping Cardiac Amyloidosis: The Role of Nuclear Imaging  
Geoffrey Johnson  
Rochester, MN

11:33 a.m.  
Question and Answer

11:40 a.m.  
Beyond Imaging: Novel Approaches to the Diagnosis and Management of Patients With Cardiac Amyloidosis  
Martha Grogan  
Rochester, MN

11:52 a.m.  
Question and Answer

11:58 a.m.  
Panel Discussion



### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

Scientific - Session #683

#### Controversies in Cardiac MRI

Sunday, March 11, 2018, 12:30 p.m. - 1:45 p.m.

Room 308 A

CME Hours: 1.25 /CNE Hours: 1.25

Co-Chair Milind Y. Desai

Co-Chair Kevin E. Steel

12:30 p.m.

Pro: Every Cardiomyopathy Patient Should Undergo an MRI

Mouaz H. Al-Mallah

Riyadh, Saudi Arabia

12:40 p.m.

Con: Every Cardiomyopathy Patient Should Undergo an MRI

John Gorcsan, III

Saint Louis, MO

12:50 p.m.

Rebuttal Every Cardiomyopathy Patient Should Undergo an MRI

Mouaz H. Al-Mallah

Riyadh, Saudi Arabia

12:52 p.m.

Rebuttal Every Cardiomyopathy Patient Should Undergo an MRI

John Gorcsan, III

Saint Louis, MO

12:54 p.m.

Pro: CMR is the Test of Choice to Guide Revascularization

Eike C. Nagel

Frankfurt, Germany

1:04 p.m.

Con: CMR is the Test of Choice to Guide Revascularization

Milind Y. Desai

Cleveland, OH

1:14 p.m.

Rebuttal CMR Is the Test of Choice to Guide Revascularization

Eike C. Nagel

Frankfurt, Germany

1:16 p.m.

Rebuttal, CMR is the Test of Choice to Guide Revascularization

Milind Y. Desai

Cleveland, OH

1:18 p.m.

Pro: 4D Flow Imaging: Nice Images Looking for a Role

Amit R. Patel

Chicago, IL

1:28 p.m.

Con: 4D Flow Imaging: Nice Images Looking for a Role

Anthony R. Fuisz

Washington, DC

1:38 p.m.

Rebuttal: 4D Flow Imaging: Nice Images Looking for a Role

Amit R. Patel

Chicago, IL

1:41 p.m.

Rebuttal: 4D Flow Imaging: Nice Images Looking for a Role

Anthony R. Fuisz

Washington, DC

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

Moderated Poster Contributions - Session #1229M

#### Non Invasive Imaging and Prognosis

Sunday, March 11, 2018, 12:30 p.m. - 1:45 p.m.

Non Invasive Imaging Moderated Poster Theater, Poster

Hall, Hall A/B

CME Hours: /CNE Hours:

ACC Poster Moderator: Amir Ali Ahmadi

ACC Poster Moderator: Federico M. Asch

12:30 p.m.

Incremental Value of Extracellular Volume Assessment by

Cardiovascular Magnetic Resonance Imaging in Risk Stratifying

Patients With Suspected Myocarditis

Christoph Gräni, Loïc Bière, Christian Eichhorn, Kyoichi Kaneko,

Vikram Agarwal, Ayaz Aghayev, Michael Steigner, Ron Blankstein,

Michael Jerosch-Herold, Raymond Kwong, Brigham and Women's

Hospital, Boston, MA, USA

12:40 p.m.

Question and Answer

12:45 p.m.

Defining the Relationship Between the Extent of Mid-Wall Late

Gadolinium Enhancement and Adverse Heart Failure Events in

Patients With Dilated Cardiomyopathy

Brian Halliday, Arun Bakshi, Ankur Gulati, Aamir Ali, Simon

Newsome, Monika Arzanauskaite, Cemil Izgi, Amrit Lota, Upasana

Tayal, Vass Vassiliou, Stuart Cook, John Cleland, Dudley Pennell,

Sanjay Prasad, Royal Brompton Hospital and National Heart &

Lung Insititute, Imperial College, London, United Kingdom

12:55 p.m.

Question and Answer

1:00 p.m.

Meta-Analysis of Late Gadolinium Enhancement in Dilated

Cardiomyopathy

Arun Kannan, Kris Kumar, Srinivasa Madhavan, Gurusaravanan

Kutti Sridharan, Rajesh Janardhanan, University of Arizona,

Tucson, AZ, USA

1:10 p.m.

Question and Answer

1:15 p.m.

Predicting Cardiovascular Outcomes With Coronary Artery

Calcium Progression: The Walter Reed Cohort

Robert Paisley, Joshua Mitchell, Patrick Moon, Todd Villines,

Baylor College of Medicine, Houston, TX, USA, Walter Reed

National Military Medical Center, Bethesda, MD, USA



1:25 p.m.

Question and Answer

1:30 p.m.

Absolute Coronary Artery Calcium Scores Predict Mortality Better Than Age-Sex-Race/Ethnicity Percentile: CAC Consortium  
Gowtham Grandhi, Tanuja Rajan, Zeina Dardari, Michael Miedema, Leslee Shaw, John Rumberger, Alan Rozanski, Mouaz H. Al-Mallah, Daniel Berman, Matthew Budoff, Khurram Nasir, Michael Blaha, Baptist Health South Florida, Miami, FL, USA

1:40 p.m.

Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Poster Contributions - Session #1251**

**Non Invasive Imaging: Coronary CTA For Diagnosis and Prognosis**

**Sunday, March 11, 2018, 1:30 p.m. - 4:30 p.m.**

**Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

311 - Remote Interpretation of Coronary Computed Tomographic Angiography (CCTA) Can Safely Expand Access to Advanced Cardiovascular Imaging to Evaluate Acute Chest Pain in Community Hospital Setting  
Edris Alderwish, Pamela Noack, Jhanna Moore, Moshrik Abd Alamir, Michael Poon, Lenox Hill Hospital-NSLIJ/Hofstra, New York, NY, USA

312 - HEART Score Does Not Predict the Presence of Anatomical Coronary Artery Disease in Patients Presenting to the Emergency Department With Chest Pain  
Aishwarya Bhardwaj, Makoto Nagahama, Saurabh Malhotra, University at Buffalo, Buffalo, NY, USA

313 - Coronary Plaque Burden on Coronary Computed Tomographic Angiography in Diabetics Versus Non-Diabetics  
Anthony Delicce, Basem Alawneh, Kyla D'Angelo, David Bass, Ofek Hai, Daniel Chikvashvili, Roman Zeltser, Amgad Makaryus, Zucker School of Medicine at Hofstra and Northwell, Hempstead, NY, USA, Nassau University Medical Center, East Meadow, NY, USA

314 - A Novel Ensemble Machine Learning-Based Method Versus Clinical Risk Scoring For Discrimination of Individuals Who Will Versus Will Not Experience Acute Coronary Syndrome After Coronary Computed Tomographic Angiography: Results From the ICONIC Study  
Subhi Al'Aref, Gabriel Maliakal, Michael Cheng, Kranthi Kolli, Gurpreet Singh, Mohit Pandey, Amit Kumar, Aeshita Dwivedi, Daniele Andreini, Filippo Cademartiri, Kavitha Chinnaiyan, Benjamin Chow, Ricardo Cury, Gudrun Feuchtnner, Martin Hadamitzky, Yong-Jin Kim, Jonathon Leipsic, Hugo Marques, Gianluca Pontone, Todd Villines, Daniel Berman, Matthew Budoff, Jeroen J. Bax, Hyuk-Jae Chang, James K. Min, Dalio Institute of Cardiovascular Imaging, Weill Cornell Medicine, New York, NY, USA

315 - Improvement in LDL Is Associated With Decrease in Multiple Components of Non-Calcified Plaque on Coronary CTA

Yuka Otaki, Balaji Tamarappoo, Sebastien J. Cadet, Phi T. Huynh, Sean Hayes, John Friedman, Louise Thomson, Piotr Slomka, Damini Dey, Daniel Berman, Cedars-Sinai Medical Center, Los Angeles, CA, USA

316 - The Role of Plaque Morphology in Discriminating Early Versus Late Occurring Acute Coronary Syndrome: The ICONIC Trial  
Wijnand J. Stuijzand, Benjamin Chow, Fay Lin, Peña M. Jessica, Daniele Andreini, Filippo Cademartiri, Kavitha Chinnaiyan, Ricardo Cury, Gudrun Feuchtnner, Martin Hadamitzky, Yong-Jin Kim, Jonathon Leipsic, Hugo Marques, Gianluca Pontone, Todd Villines, Daniel Berman, Matthew Budoff, Leslee Shaw, Jeroen J. Bax, James K. Min, Hyuk-Jae Chang, New York-Presbyterian Hospital and Weill Cornell Medicine, New York, NY, USA

317 - The Impact of Cigarette Smoking For High-Risk Coronary Plaque Development and Plaque Progression by Serial Coronary Computed Tomography Angiography  
Hyung-Bok Park, Sang-Eun Lee, Byoung Kwon Lee, Martin Hadamitzky, Yong-Jin Kim, Edoardo Conte, Daniele Andreini, Gianluca Pontone, Matthew Budoff, Ilan Gottlieb, Eun Ju Chun, Filippo Cademartiri, Erica Maffei, Hugo Marques, Jonathon Leipsic, Jung Hyun Choi, Renu Virmani, Habib Samady, Peter Stone, Daniel Berman, Jagat Narula, Leslee Shaw, Jeroen Bax, James K. Min, Hyuk-Jae Chang, Yonsei-Cedars Sinai Integrative Cardiovascular Imaging Research Center, Seoul, South Korea, International St. Mary's Hospital, Incheon, South Korea

318 - The Association of Acute Coronary Syndrome and Coronary Plaque Features by Sex: The ICONIC Study  
Jessica Pena, Leslee Shaw, Fay Lin, Daniele Andreini, Filippo Cademartiri, Kavitha Chinnaiyan, Benjamin Chow, Ricardo Cury, Gudrun Feuchtnner, Martin Hadamitzky, Yong-Jin Kim, Jonathon Leipsic, Hugo Marques, Gianluca Pontone, Todd Villines, Daniel Berman, Matthew Budoff, Jeroen J. Bax, James K. Min, Hyuk-Jae Chang, ICONIC Investigators, Weill Cornell Medical College, New York, NY, USA

319 - Prevalence of Layered Testing For Coronary Artery Disease and Cost Analysis of Coronary Computed Tomography Angiography as the Initial Diagnostic Test  
Eileen Hu-Wang, Tushar Acharya, Bharath Sathya, Faraz Kureshi, Shirley Rollison, Kathie Bronson, W. Patricia Bandettini, Sujata Shanbhag, Marcus Chen, National Heart, Lung, and Blood Institute, Bethesda, MD, USA

320 - Impact of Sex and Smoking on Coronary Artery Disease Extent and Severity by Coronary CT Angiography: Results From the CONFIRM (Coronary CT Angiography Evaluation For Clinical Outcomes: An International Multicenter) Registry  
Brittany Katz, Aeshita Dwivedi, Stephan Achenbach, Mouaz H. Al-Mallah, Jeroen J. Bax, Daniel Berman, Matthew Budoff, Filippo Cademartiri, Tracy Callister, Hyuk-Jae Chang, Benjamin Chow, Ricardo Cury, Gudrun Feuchtnner, Martin Hadamitzky, Joerg Hausleiter, Philipp Kaufmann, Jonathon Leipsic, Yong-Jin Kim, Hugo Marques, Gianluca Pontone, Gilbert Raff, Ronen Rubenshtein, Todd Villines, James K. Min, Jessica Pena, New York-Presbyterian Hospital and Weill Cornell Medicine, New York, NY, USA



321 - Additional Diagnostic Value of CT Perfusion Over Coronary CT Angiography in Stented Patients With Suspected In-Stent Restenosis or Coronary Artery Disease Progression: ADVANTAGE Study Preliminary Results  
Daniele Andreini, Saima Mushtaq, Gianluca Pontone, Jeroen Sonck, [Eduardo Conte](#), Marco Guglielmo, Andrea Baggiano, Mauro Pepi, Antonio Bartorelli, Centro Cardiologico Monzino, IRCCS, Milan, Italy

322 - Impact of Coronary Remodeling on Coronary Physiology: A Serial Coronary Computed Tomography Study  
[Carlos A. Collet](#), Jeroen Sonck, Yosuke Miyazaki, Taku Asano, Bernard Cosyns, Yoshinobu Onuma, Marcio Bittencourt, Antonio Bartorelli, Daniele Andreini, Charles Taylor, Campbell Rogers, Patrick Serruys, Academic Medical Center, Amsterdam, The Netherlands

323 - Recent Trends in Utilization of Cardiovascular Imaging and Invasive Coronary Angiography in the Large Scale United States Military Healthcare System  
[Charles Eisenberg](#), Zorana Mrcic, Geoffrey Cole, Amber M. Evans, Cynthia Philip, Todd Villines, Walter Reed National Military Medical Center, Bethesda, MD, USA, Health ResearchTx, Portsmouth, VA, USA

324 - Computed Tomography Myocardial Perfusion Adds Diagnostic Power to Coronary Computed Tomography Angiography in Renal Transplant Candidates: Preliminary Results  
[Eduardo Leal Adam](#), Carlos Rochitte, Pedro Lemos, Luiz Machado Cesar, Jose Jayme de Lima, Luis Henrique Gowdak, Heart Institute, InCor, University of São Paulo Medical School, São Paulo, Brazil

325 - CT Myocardial Perfusion Imaging Fails to Improve Diagnostic Accuracy of CT Coronary Angiography to Determine Stent Patency  
[Armin Arbab-Zadeh](#), Richard George, Julie Miller, John Texter, Gustavo Godoy, Mohammad Ostovaneh, Andrea Vavere, Marc Dewey, Carlos Rochitte, Hiroyuki Niinuma, Marcus Chen, Matthew Matheson, Klaus Kofoed, Melvin Clouse, Christopher Cox, Joao Lima, Jeffrey Brinker, Roger Laham, Johns Hopkins University, Baltimore, MD, USA

326 - Association of Sex With Atherosclerotic Plaque Characteristics in Precursors of Culprit Lesions: The ICONIC Study  
[Aeshita Dwivedi](#), Leslee Shaw, Fay Lin, Jessica Pena, Daniele Andreini, Filippo Cademartiri, Kavitha Chinnaiyan, Benjamin Chow, Ricardo Cury, Gudrun Feuchtner, Martin Hadamitzky, Yong-Jin Kim, Jonathon Leipsic, Hugo Marques, Gianluca Pontone, Todd Villines, Peter Stone, Habib Samady, Renu Virmani, Jagat Narula, Jeroen J. Bax, James K. Min, Hyuk-Jae Chang, Dalio Institute of Cardiovascular Imaging, New York-Presbyterian Hospital and Weill Cornell Medicine, New York, NY, USA, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, South Korea

## Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

### Poster Contributions - Session #1252

### Non Invasive Imaging: Applications of Late Gadolinium Enhancement and T1 Mapping

Sunday, March 11, 2018, 1:30 p.m. - 4:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

327 - Impact of Myocardial Viability Assessed by Cardiac Magnetic Resonance on Survival in Patients With Severe Ischemic Left Ventricular Dysfunction

[Fang Yi Lim](#), Jonathan Yap, Fei Gao, Adrian Low, Sinead Wang, Thu Thao Le, Ru San Tan, National Heart Centre Singapore, Singapore, Singapore, Singhealth Polyclinics, Singapore, Singapore

328 - Cardiac MRI Tissue Characterization and Myocardial Mechanics in Pediatric Patients With Hypertrophic Cardiomyopathy

[Sudeep Sunthakar](#), David Parra, Kristen George-Durrett, Jason Christensen, Jonathan Soslow, Vanderbilt Children's Hospital, Nashville, TN, USA

329 - Late Gadolinium Enhancement on Cardiac Magnetic Resonance Imaging in Hypertrophic Cardiomyopathy of the Young  
[Erica Bonura](#), Mahmoud Abdelsalam, Martijn Bos, Philip Araoz, Steve Ommen, Michael Ackerman, Jeffrey Geske, Mayo Clinic, Rochester, MN, USA

330 - Higher Quantitative Pericardial Delayed Hyperenhancement in Patients With Recurrent Pericarditis After a Year of Medical Therapy Is Associated With Frequent Relapses

[Beni Rai Verma](#), Chandra Ala, Kimi Sato, Arnav Kumar, Vivek Menon, Rory Hachamovitch, Deborah Kwon, Allan Klein, Cleveland Clinic, Cleveland, OH, USA

331 - Meta-Analysis on Late Gadolinium Enhancement in Hypertrophic Cardiomyopathy

[Arun Kannan](#), Kris Kumar, Srinivasa Madhavan, Gurusaravanan Kutti Sridharan, Rajesh Janardhanan, Sarver Heart Center, Tucson, AZ, USA

332 - Non Infarct Related Artery Microvascular Obstruction Is a Predictor of Persistent Diastolic Dysfunction in Patients Presenting With ST Elevation Myocardial Infarction

[Amir Lerman](#), Reza Khorramirouz, Michel Corban, Shi-Wei Yang, John Bois, Lilach Lerman, Jae K. Oh, Mayo Clinic, Rochester, MN, USA

333 - Jeopardized Myocardium Defined by Late Gadolinium MRI Predicts Survival in Patients With Ischemic Cardiomyopathy: Impact of Revascularization

[Deborah Kwon](#), Nancy Obuchowski, Thomas H. Marwick, Venu Menon, Brian Griffin, Scott Flamm, Rory Hachamovitch, Cleveland Clinic, Cleveland, OH, USA, Baker Heart and Diabetes Institute, Melbourne, Australia

334 - Comparing Myocardial Fibrosis Quantification Methods For Risk Stratification in Patients With Suspected Myocarditis Using Cardiac Magnetic Resonance Imaging

[Christoph Gräni](#), Christian Eichhorn, Loïc Bière, Kyoichi Kaneko, Vikram Agarwal, Venkatesh Murthy, Ayaz Aghayev, Michael



Steigner, Ron Blankstein, Michael Jerosch-Herold, Raymond Kwong, Brigham and Women's Hospital, Boston, MA, USA

335 - Prolonged Inflammatory Response in the Peri-Infarct Zone of Hemorrhagic Myocardial Infarction Is Driven by Iron-Ceroid Complex From Apoptotic Foam Cells

Ivan Cokic, Guan Wang, Kolja Wawrowsky, Hsin-Jung Yang, Richard Tang, Joseph Francis, Rohan Dharmakumar, Cedars-Sinai Medical Center, Los Angeles, CA, USA

336 - T1 Mapping Predicts Adverse Clinical Outcome in Myocarditis

Chirag Agarwal, Mario Rivera Rodriguez, Basera Sabharwal, Bing Yue, Eelin Wilson, Shuyang Fang, Allen Weiss, Rebecca Smoller, Jagat Narula, Valentin Fuster, Juan Badimon, Javier Sanz, Carlos Santos-Gallego, Mount Sinai Hospital, New York, NY, USA, Maimonides Medical Center, Brooklyn, NY, USA

337 - Myocardial Scar Patterns in Women With Suspected Coronary Vasomotor Dysfunction: A Report From the Women's Ischemia Syndrome Evaluation

Parham Zarrini, Sawan Jalnapurkar, Janet Wei, Sandy Joung, Reddy Sailaja Marpuri, Ahmed AlBadri, David Anderson, Eileen Handberg, George Sopko, Carl Pepine, John Petersen, Daniel Berman, Louise Thomson, C. Noel Bairey Merz, Barbra Streisand Women's Heart Center, Cedars-Sinai Heart Institute, Los Angeles, CA, USA

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Poster Contributions - Session #1253

##### New Applications in Echocardiography

Sunday, March 11, 2018, 1:30 p.m. - 4:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

339 - Novel 3D Noninvasive Ultrasound Imaging Localizes Accessory Pathways in Adults and Adolescents With Wolff-Parkinson-White Syndrome

Christopher Grubb, Lea Melki, Leonardo Liberman, Eric Silver, Carmine Sorbera, Daniel Y. Wang, Vivek Iyer, Rina Shah, Marc Waase, Hasan Garan, Elisa Konofagou, Elaine Wan, Columbia University Medical Center, Division of Cardiac Electrophysiology, New York, NY, USA, Columbia University, Department of Biomedical Engineering, New York, NY, USA

340 - Subclinical Left Ventricular Dysfunction in Obese Adolescents With and Without Metabolic Syndrome

Philip G. Haines, Katherine French, Ravi V. Shah, David Harrild, Siddique Abbasi, Warren Alpert Medical School of Brown University, Providence, RI, USA, Boston Children's Hospital, Boston, MA, USA

341 - Myocardial Remodeling in Offspring of Diabetic Mothers Extends Into Early Childhood

Aparna Kulkarni, Ling Li, Daisy Gonzalez, Mary Craft, Shelby Kutty, Bronx Lebanon Hospital Center, Icahn School of Medicine at Mount Sinai, Bronx, NY, USA, Children's Hospital and Medical Center, Omaha, NE, USA

342 - The Association Between Appropriate Use Criteria and Transthoracic Echocardiography Findings

Tamryn Law, Zachary Bouck, Cindy Yin, Gillian Nesbitt, Amer Johri, Kibar Yared, Jeremy Edwards, Mark Hansen, Rory Weiner, Sacha Bhatia, University of Toronto, Toronto, Canada

343 - Immune Profile of Healthy Cardiovascular Aging: Insights From a Population-Based Study and Network Modeling

Sara Bouajila, Kegan Moneghetti, Yukari Kobayashi, Fatemeh A. Gomari, Fahim Abbasi, Mark M. Davis, Joseph C. Wu, Tatiana Kuznetsova, Nazish Sayed, Francois Haddad, Stanford Cardiovascular Institute, Stanford, CA, USA, Division of Cardiovascular Medicine, Stanford University School of Medicine, Stanford, CA, USA

344 - Clinical Outcomes of Pericardial Effusions in End-Stage Renal Disease: Pericarditis-Associated Versus Asymptomatic

Karim Abdur Rehman, Jorge Betancor, Bo Xu, Arnav Kumar, Carlos Godoy Rivas, Leslie Wong, Paul Cremer, Craig Asher, Allan Klein, Cleveland Clinic Foundation, Cleveland, OH, USA

345 - Semi-Automatic Classification of Cardiac Blood-Flow Fields Using Echocardiographic Particle Imaging Velocimetry Data

Ali Hama Amin, Sirish Shrestha, Marton Tokodi, Muhammad Ashraf, Grace Verzosa, Mokoto Amaki, Haruhiko Abe, Partho P. Sengupta, WVU Heart & Vascular Institute, Morgantown, WV, USA, Mt. Sinai Medical Center, New York, NY, USA

346 - Echocardiographic Features of Longevity: A Case Series of Centenarians

Paola Casanova, Omar Issa, Jorge Perez, Benjamin Hurwitz, Saberio Lo Presti, Christos Mihos, Orlando Santana, Mount Sinai Medical Center, Miami Beach, FL, USA

347 - System Based Intervention Using Electronic Medical Records and Its Potential to Decrease the Overuse of Transthoracic Echocardiogram

Kinjan Patel, Michael J. Forte, James Mills, Fahad Alqahtani, Shanthi Manivannan, West Virginia University Hospital, Morgantown, WV, USA

348 - Echocardiographic Left Ventricular Global Longitudinal Strain in U.S. Hispanics/Latinos: HCHS/SOL Echocardiographic Study of Latinos

Maria Octavia Rangel, Ana Soto, Robert Kaplan, Sonia Ponce, Mayank Kansal, Sanjiv Jayendra Shah, Jianwen Cai, Martin Bilsker, Barry E. Hurwitz, Min Pu, Carlos Rodriguez, Wake Forest University Baptist Medical Center, Winston Salem, NC, USA

349 - Global Longitudinal Strain and Mechanical Dispersion Improves Risk Stratification of Malignant Ventricular Arrhythmias and Major Adverse Cardiac Events Over Ejection Fraction Alone

Rebecca Perry, Sanjana Patil, Matthew Horsfall, Christian Marx, Derek Chew, Majo Joseph, Anand Ganesan, Andrew McGavigan, Gaetano Nucifora, Joseph Selvanayagam, Flinders University of South Australia, Bedford Park, Australia, Flinders Medical Centre, Bedford Park, Australia

350 - Role of Sonographically Identified Cardiac Activity as a Predictor of Resuscitation Outcome in Cardiac Arrest Patients



Ahmed Souka, Amr Abdallah El Sayed, Haitham Tammam, Atlantic Health System, Morristown, NJ, USA, Alexandria University, Alexandria, Egypt

351 - Smartphone Teleguidance in Learning to Obtain Point-of-Care Cardiac Ultrasound Images From Within the Hospital: A Pilot Study Using Novice Learners

David Leung, Stanley Amundson, James Phan, Bruce Kimura, Scripps Mercy, San Diego, CA, USA

352 - Occupational Environmental Exposures and Cardiac Structure and Function: The Echocardiographic Study of Latinos (Echo-SOL)

Melissa Burroughs Pena, Catherine M. Bulka, Katrina Swett, Krista Pereira, Mayank Kansal, Matthew Loop, Martha Daviglus, Carlos Rodriguez, University of California San Francisco, San Francisco, CA, USA, Wake Forest School of Medicine, Winston-Salem, NC, USA

353 - Echocardiographic Measurement of Cardiac Twist: A Systematic Review and Meta-Analysis

Muath Bishawi, Soraya Voigt, Yash Bhatnagar, Alina Nicoara, Madhav Swaminathan, George Truskey, Olaf von Ramm, Duke University Medical Center, Durham, NC, USA

354 - Correlation Between Three-Dimensional Echocardiography Ejection Fraction With Two-Dimensional Speckle Tracking Echocardiography Strain Variables

Benjamin C. Salgado, Gaurang Vaidya, Faraz Badar, Marcus Stoddard, University of Louisville, Louisville, KY, USA

355 - Relationship Between Global Longitudinal Strain and Incident Atrial Fibrillation in the General Population: The Copenhagen City Heart Study

Anne Marie Reimer Jensen, Sofie R. Biering-Sorensen, Rasmus Mogelvang, Gorm Jensen, Amil Shah, Jan Jensen, Tor Biering-Sorensen, Department of Cardiology, Herlev and Gentofte Hospital, Gentofte, Denmark, Division of Cardiovascular Medicine, Brigham and Women's Hospital, Boston, MA, USA

356 - Optimizing Contrast Enhanced Echocardiography by Employing a Sonographer Administered Echo Enhancement Protocol

Ryan Lee Prentice, Rosco Gore, Dustin Thomas, Homayoun Ahmadian, Jeremy Berger, Brooke Army Medical Center, San Antonio, TX, USA

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Scientific - Session #696

**Unique Contributions of CMR to Clinical Cardiology: Joint Symposium of the Society for Cardiovascular Magnetic Resonance and the American College of Cardiology**

**Sunday, March 11, 2018, 2:00 p.m. - 3:30 p.m.**

**Room 311 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Andrew J. Powell

Co-Chair: Matthias Stuber

2:00 p.m.

First-Pass Perfusion CMR: The New Clinical Gold Standard for Imaging Myocardial Ischemia?

Juerg Schwitter  
Lausanne, Switzerland

2:15 p.m.

Imaging Myocardial Inflammation: Novel CMR Criteria With Unprecedented Diagnostic Accuracy  
Matthias Gero Friedrich  
Montreal, Canada

2:30 p.m.

Parametric CMR Mapping: How Virtual Myocardial Biopsy Becomes a Reality  
James C. Moon  
London England W1G 8PH, United Kingdom

2:45 p.m.

The CMR EP Lab: How EP Interventions Can Be Done Without X Rays  
Gerhard Hindricks  
Saxonia Leipzig D04289, Germany

3:00 p.m.

CMR of Cardiotoxicity: How We Can Guide Chemotherapy in Oncology by CMR?  
W. Gregory Hundley  
Winston Salem, NC

3:15 p.m.

Question and Answer

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Scientific - Session #697

**Stress Echocardiography: Ischemia, Valves, Perfusion and More!**

**Sunday, March 11, 2018, 2:00 p.m. - 3:30 p.m.**

**Room 308 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Patricia A. Pellikka

Co-Chair: Roxy Senior

2:00 p.m.

Practical Tips and Tricks for Optimal Stress Echocardiography  
Jayne Cleve  
Raleigh, NC

2:15 p.m.

Low-Gradient, Low-Ejection Fraction Aortic Stenosis  
Michael Malkowski  
Wexford, PA

2:30 p.m.

Assessment of Mitral Valve Disease  
Paul A. Grayburn  
Dallas, TX

2:45 p.m.

Stress Echo for Diastolic Function



Jens-Uwe Voigt  
Leuven, Belgium

3:00 p.m.  
Contrast and Its Role in Stress Echocardiography  
Thomas Richard Porter  
Omaha, NE

3:15 p.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Moderated Poster Contributions - Session #1269M**  
**Non Invasive Imaging For Sports Medicine**  
**Sunday, March 11, 2018, 3:45 p.m. - 4:30 p.m.**  
**Non Invasive Imaging Moderated Poster Theater, Poster Hall, Hall A/B**  
**CME Hours: /CNE Hours:**

ACC Poster Moderator: James Chihong Lee  
ACC Poster Moderator: Ankit B. Shah

3:45 p.m.  
Relationship Between Left Ventricular Structural and Functional Parameters and Peak Exercise Performance: A Three-Dimensional Echocardiographic Study in Young Athletes  
Bálint Lakatos, Orsolya Kiss, Máté Babity, Csaba Bognár, Carmen Bátorfi, Mónika Szilágyi, Nora Sydo, Timea Kovats, Attila Kovács, Bela Merkely, Semmelweis University Heart and Vascular Center, Budapest, Hungary

3:55 p.m.  
Question and Answer

4:00 p.m.  
Quantitative Analysis of Papillary Muscles and Trabeculae in Elite, Young and Masters Athletes With Cardiac Magnetic Resonance Imaging  
Ibolya Csecs, Csilla Czimbalmos, Nora Sydo, Orsolya Kiss, Petra Merkely, Vencel Juhasz, Ferenc Suhai, Attila Toth, Bela Merkely, Hajnalka Vágó, Semmelweis University Heart and Vascular Center, Budapest, Hungary

4:10 p.m.  
Question and Answer

4:15 p.m.  
Diagnosis of Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy in Athletes Using Cardiac Magnetic Resonance Imaging  
Csilla Czimbalmos, Ibolya Csecs, Nora Sydo, Petra Merkely, Orsolya Kiss, Zsolia Dohy, Attila Toth, Ferenc I. Suhai, Bela Merkely, Hajnalka Vago, Semmelweis University, Heart and Vascular Center, Budapest, Hungary

4:25 p.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #711**  
**Current Status of Cardiac CT: Joint Symposium of the Society of Cardiovascular Computed Tomography and the American College of Cardiology**  
**Sunday, March 11, 2018, 4:45 p.m. - 6:00 p.m.**  
**Room 311 A**  
**CME Hours: 1.25 /CNE Hours: 1.25**

Co-Chair: Leslee J. Shaw  
Co-Chair: Todd C. Villines  
Panelist: Jonathon Leipsic  
Panelist: James K. Min  
Panelist: Koen Nieman  
Panelist: David E. Newby  
Panelist: Ronak Rajani

4:45 p.m.  
Cardiac CT in 2018: What Has the Past Decade Taught Us  
James K. Min  
New York, NY

4:57 p.m.  
Cardiac CT: As Good as Functional Tests or Even Better?  
David E. Newby  
Edinburgh Scotland, United Kingdom

5:09 p.m.  
Cardiac CT for Transcatheter Interventions  
Jonathon Leipsic  
Vancouver, BC

5:21 p.m.  
CT-FFR: Impact on Outcomes That Matter?  
Ronak Rajani  
Surbiton, United Kingdom

5:33 p.m.  
Cardiac CT Myocardial Perfusion and Hybrid Imaging  
Koen Nieman  
Stanford, CA

5:45 p.m.  
Panel Discussion

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #712**  
**Assessment of the Patient With Severe AS in the TAVR Era**  
**Sunday, March 11, 2018, 4:45 p.m. - 6:00 p.m.**  
**Room 308 A**  
**CME Hours: 1.25 /CNE Hours: 1.25**

Co-Chair: Federico M. Asch  
Co-Chair: Janet Fredal Wyman

4:45 p.m.  
The Elderly Patient With AS: Assessing Surgical Risk and Frailty  
Muhammed Saric  
New York, NY

5:00 p.m.



TAVR Planning: How to Use Multimodality Imaging  
Zuyue Wang  
Washington, DC

5:15 p.m.  
Intra-Procedural Monitoring: When Do I Use TEE vs TTE?  
Madhav Swaminathan  
Durham, NC

5:30 p.m.  
Imaging Post-TAVR: How, When and Why?  
Federico M. Asch  
Washington, DC

5:45 p.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #723**  
**Nuclear Cardiology: Application of Nuclear Imaging to Heart Failure; Joint Symposium of the American Society of Nuclear Cardiology and the American College of Cardiology**  
**Monday, March 12, 2018, 8:00 a.m. - 9:30 a.m.**  
**Room 311 A**  
**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Prem Soman  
Co-Chair: Kim Allan Williams, SR  
Panelist: James A. Arrighi  
Panelist: Sabahat Bokhari  
Panelist: Prem Soman  
Panelist: Mark I. Travin

8:00 a.m.  
Life or Death Decisions: Myocardial Viability Assessment  
James A. Arrighi  
Providence, RI

8:15 a.m.  
Sympathy for the Devil: MIBG Imaging for Heart Failure  
Mark I. Travin  
Pleasantville, NY

8:30 a.m.  
In the Thick of It: Imaging for Cardiac Amyloid  
Sabahat Bokhari  
Green Brook, NJ

8:45 a.m.  
In Sync: Nuclear Techniques to Evaluate Dyssynchrony  
Prem Soman  
Pittsburgh, PA

9:00 a.m.  
*Challenging Cases of Approaches to Imaging*  
Mary N. Walsh  
Indianapolis, IN

9:15 a.m.  
Panel Discussion: What Would You Do? Panel Discussion of Approaches to Imaging in Challenging Cases

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Oral Contributions - Session #909**  
**Highlighted Original Research: Non Invasive Imaging and the Year in Review**  
**Monday, March 12, 2018, 8:00 a.m. - 9:30 a.m.**  
**Room 308 A**  
**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Anthony N. DeMaria  
Co-Chair: Sanjiv Kaul

8:00 a.m.  
Year in Review Speaker  
Y. S. Chandrasekhar  
Minneapolis, MN

8:12 a.m.  
18F-Fluoride Positron Emission Tomography: Computed Tomography Angiography Predicts Bioprosthetic Valve Degeneration  
Timothy Cartledge, Audrey White, Edwin Van Beek, David Newby, Marc Dweck, University of Edinburgh, Edinburgh, United Kingdom

8:22 a.m.  
Discussion

8:25 a.m.  
Hemodynamic Profile and Echocardiographic Outcomes at 1 Year of the Lotus Transcatheter Aortic Valve in High and Extreme Surgical Risk Patients: An Analysis From the REPRISE III Randomized Controlled Trial  
Federico M. Asch, Mani Vannan, Siddharth Singh, Bijoy Khandheria, Stephen Little, Dominic Allocco, Ian Meredith, Ted Feldman, Michael Reardon, Neil Weissman, MedStar Health Research Institute, Washington, DC, USA

8:35 a.m.  
Discussion

8:38 a.m.  
Diffuse Myocardial Fibrosis Measured by Extracellular Volume Associates With Incident Ventricular Arrhythmia in Implantable Cardioverter Defibrillator Recipients More Than Focal Fibrosis  
Eric Olausson, Fredrika Fröjd, Maren Maanja, Louise Niklasson, Yaron Fridman, Patrick Bering, Jonathan Wertz, Timothy Wong, Peter Kellman, Chris Miller, Samir Saba, Martin Ugander, Erik Schelbert, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA, Karolinska Institutet and Karolinska University Hospital, Stockholm, Sweden

8:48 a.m.  
Discussion

8:51 a.m.  
Increased Myocardial Stiffness Estimated by Intrinsic Velocity Propagation Method Is Associated With Adverse Cardiac Events at Follow-Up in Patients With Amyloidosis  
Cristina Pislaru, Filip Ionescu, Ioana Petrescu, Patricia Pellikka, Martha Grogan, Angela Dispenzieri, Sorin Pislaru, Mayo Clinic, Rochester, MN, USA



9:01 a.m.  
Discussion

9:04 a.m.  
Prognostic Importance of Left Ventricular Mechanical Dyssynchrony in Predicting Cardiovascular Death in the General Population: The Copenhagen City Heart Study  
Daniel Modin, Sofie Reumert Biering-Sørensen, Rasmus Møgelvang, Jan Jensen, Tor Biering-Sørensen, Herlev Gentofte University Hospital, Hellerup, Denmark, University of Copenhagen, Copenhagen, Denmark

9:14 a.m.  
Discussion

9:17 a.m.  
Long Term Follow-Up of Coronary Calcification in Diabetes Compared to Those Without Diabetes: Observations From a Registry of 55,148 Patients  
Kashif Shaikh, Dong Li, Juhwan Lee, Rine Nakanishi, Yanglu Zhao, Eranthi Jayawardena, Chandana Shekar, Dhiran Verghese, Matthew Budoff, LABIOMED, Torrance, CA, USA

9:27 a.m.  
Discussion

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1293

#### Coronary Calcium: Diagnosis and Prognosis

Monday, March 12, 2018, 9:30 a.m. - 12:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

311 - Prevalence of Cardiovascular Risk Factors and Prognostic Significance of Coronary Artery Calcium in Individuals With LDL-C  $\geq 190$  mg/dL: The Multi-Ethnic Study of Atherosclerosis  
Pratik Sandesara, Wesley O'Neal, Heval Mohamed Kelli, Vasanth Sathiyakumar, Seth Martin, Michael Blaha, Roger Blumenthal, Laurence Sperling, Emory University School of Medicine, Atlanta, GA, USA, Johns Hopkins University School of Medicine, Baltimore, MD, USA

312 - Impact of No-Cost Coronary Calcium Score Testing in Patients at Risk For Cardiovascular Disease on Patient Representation and Diagnostic Yield  
Sadeer G. Al-Kindi, David Zidar, Matthew Wilson, Daniel Simon, Marco Costa, Robin Rowell, Les Ciancibello, Richard Josephson, Robert Gilkeson, Sanjay Rajagopalan, University Hospitals Cleveland Medical Center, Cleveland, OH, USA

313 - The Impact of Slice Thickness on Agatston-Based Coronary Artery Calcium Scoring in Lung Cancer Screening CT  
Esseim Sharma, Anastassia Gorvitovskaia, Jared Christensen, Wen-Chih Wu, Gaurav Choudhary, Alan Morrison, Providence VA Medical Center, Providence, RI, USA, Brown University, Providence, RI, USA

314 - Assessment of Risk Factors For the Progression of Coronary Artery Calcification in Asymptomatic Subjects: Results From the Korea Initiatives on Coronary Artery Calcification (KOICA) Registry

Ji Hyun Lee, Kisang Yoo, David Sung, Donghee Han, Hyeonju Jung, Hyo Eun Park, Su-Yeon Choi, Eun Ju Chun, Jidong Sung, Sung Hak Park, Hae-Won Han, Ji Min Sung, Hyuk-Jae Chang, Severance Cardiovascular Hospital, Yonsei University Health System, Seoul, South Korea

315 - Risk Reclassification With Absence of Coronary Artery Calcium Among Statin Candidates According to American College of Cardiology/American Heart Association (ACC/AHA) Guidelines: Systematic Review and Meta-Analysis

Gowtham Grandhi, Anshul Saxena, Tanuja Rajan, Emir Veledar, Amit Khara, Ron Blankstein, Roger Blumenthal, Leslee Shaw, Michael Blaha, Khurram Nasir, Baptist Health South Florida, Miami, FL, USA

316 - Association of Very High Coronary Calcium Score With Major Adverse Cardiovascular Events

Mohamad Karnib, Mohammed Zaahid Sheriff, Sadeer Al-Kindi, Stan Pokras, David A. Zidar, Robert Gilkeson, Sanjay Rajagopalan, Farshad Forouzandeh, University Hospitals Cleveland Medical Center, Cleveland, OH, USA

317 - Absence of Visual Coronary Artery Calcium on Low Dose Attenuation CT During PET/CT Predicts Very Low Incidence of Revascularization and MACE

Viet T. Le, Stacey Knight, David Min, Kurt Jensen, Donald Lappe, Ritesh Dhar, Kent G. Meredith, Steve Mason, Jeffrey Anderson, J. Muhlestein, Kirk Knowlton, Intermountain Medical Center, Salt Lake City, UT, USA

318 - Strict Glycemic Control Attenuates the Progression of Coronary Artery Calcification in Asymptomatic Subjects With Diabetes Mellitus

Ki-Bum Won, Su-Yeon Choi, Eun Ju Chun, Jidong Sung, Hae-Ok Jung, Hyuk-Jae Chang, Ulsan University Hospital, University of Ulsan College of Medicine, Ulsan, South Korea

319 - Coronary Artery Calcification Is Superior to Classical Risk Factors as Predictor of Cardiovascular Disease in Familial Hypercholesterolemia

Marcio Miname, Romulo Alves, Sergio Moraes, Pamela Silva, Marcio Bittencourt, Cinthia Jannes, Alexandre Pereira, Raul Santos, Heart Institute InCor, São Paulo, Brazil

320 - Spectrum of Coronary Artery Calcium (CAC) According to Age, Gender, Race in a Multi-Ethnic Asian Population

Shu Yun Heng, Jien Sze Ho, Foong Koon Cheah, Terrance Chua Siang Jin, Felix Keng Yung Jih, Lohendran Baskaran, Seyed Ehsan Saffari, Swee Yaw Tan, Duke-NUS Medical School, Singapore, Singapore

321 - Absence of Coronary Artery Calcium Is Associated With a Favorable All Cause and Cardiovascular Disease Specific Mortality Risk Among Statin Candidates According to American College of Cardiology/American Heart Association (ACC/AHA) Cholesterol Management Guidelines: CAC Consortium

Tanuja Rajan, Gowtham Grandhi, Zeina Dardari, Michael Miedema, Leslee Shaw, John Rumberger, Alan Rozanski, Mouaz H. Al-Mallah, Daniel Berman, Matthew Budoff, Michael Blaha, Khurram Nasir, Baptist Health South Florida, Miami, FL, USA



322 - The Warranty Period Following a Coronary Artery Calcium Score of Zero: The Walter Reed Cohort

Joshua Mitchell, Robert Paisley, Patrick Moon, Todd Villines, Washington University in St. Louis, St. Louis, MO, USA, Walter Reed National Military Medical Center, Bethesda, MD, USA

323 - High-Density Lipoprotein Subfractions Are Not Independently Associated With Coronary Artery Calcium: A Cross-Section Analysis

Marcio Bittencourt, Giuliano Generoso, Isabela Bensenor, Itamar S. Santos, Raul D. Santos, Alessandra C. Goulart, Henrique L. Staniak, Rodolfo Sharovsky, Steven Jones, Krishnaji R. Kulkarni, Michael J. Blaha, Peter P. Toth, Paulo A. Lotufo, Center for Clinical and Epidemiological Research, University Hospital, University of São Paulo, São Paulo, Brazil, Instituto do Coracao, Faculdade de Medicina, Universidade de São Paulo, São Paulo, Brazil

324 - Prospective Randomized Trial of Rivaroxaban Versus Warfarin in the Evaluation of Progression of Coronary Artery Calcification

Juhwan Lee, Rine Nakanishi, Dong Li, Kazuhiro Osawa, Kashif Shaikh, Chandana Shekar, Eranthi Jayawardena, Maja Blanco, Matthew Chen, Matthew Sieckert, Eric Nelson, Darius Billingsley, Matthew Budoff, Los Angeles Biomedical Research Institute, Torrance, CA, USA

325 - Atherosclerosis as Manifest by Thoracic Aortic Calcium: Insights From a Remote Native Population With Extremely Low Levels of Coronary Atherosclerosis and Traditional CV Risk Factors  
Randall C. Thompson, Benjamin C. Trumble, Michael Gurven, Chris J. Rowan, Katherine M. Walsworth, Frances Neunuebel, Adel H. Allam, Bruno Frohlich, Samuel Wann, David E. Michalik, M. Linda Sutherland, James Sutherland, Guido P. Lombardi, Bret Beheim, Jonathan Steiglitz, Jagat Narula, James K. Min, Caleb Finch, Gregory Thomas, Hillard Kaplan, St. Luke's Mid America Heart Institute, Kansas City, MO, USA, Chapman University, Economic Science Institute, Orange, CA

326 - Reliability of Cardiac Fat Volumes Measured by Non-Contrast Coronary Calcium Computed Tomography Using a Semi-Automated Cardiac Fat Analysis Software

Eranthi Jayawardena, Dong Li, Christopher Dailing, Rine Nakanishi, Damini Dey, Assad Qureshi, Brooke Dickens, Nicolai Hathiramani, Michael Kim, Ferdinand Flores, Ann E. Kearns, Matthew Budoff, Los Angeles Biomedical Research Institute, Harbor-UCLA Medical Center, Torrance, CA, USA, Biomedical Imaging Research Institute, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

##### Poster Contributions - Session #1294

##### What's New in Nuclear Cardiology?

Monday, March 12, 2018, 9:30 a.m. - 12:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

327 - Relationship of Arterial Inflammation With Insulin Resistance in Familial Dyslipidemias

Georgios Benetos, Konstantinos Toutouzas, Iosif Koutagiar, Ioannis Skoumas, Nikolettia Pianou, Alexandros Georgakopoulos, Spyros Galanakis, Alexios Antonopoulos, Evangelos Oikonomou,

Pavlos Kafouris, Emmanouil Athanasiadis, Marinos Metaxas, George Spyrou, Zoi Pallantza, Constantina Aggeli, Charalambos Antoniadis, Georgia Keramida, Adrien Peters, Dimitris Tousoulis, Constantinos Anagnostopoulos, First Department of Cardiology, Athens, Greece, Biomedical Research Foundation, Athens, Greece

328 - Improvement in Large Density HDL Particle Number by NMR Is Associated With Improvement in Vascular Inflammation by 18-FDG PET/CT at One-Year in Psoriasis

Amit Dey, Martin Playford, Aditya Joshi, Agastya Belur, Aditya Goyal, Youssef Elnabawi, Jacob Groenendyk, Jonathan Chung, Joshua Rivers, Justin Rodante, Leonard Genovese, Aparna Sajja, Tushina Jain, Charlotte Harrington, Nevin Varghese, Parag Shukla, Heather Teague, Yvonne Baumer, Alan Remaley, Mark Ahlman, Joel Gelfand, Nehal Mehta, National Heart, Lung & Blood Institute, Bethesda, MD, USA

329 - SUV Quantification of <sup>99m</sup>Tc-PYP Imaging in TTR-Cardiac Amyloidosis Using a CZT Camera: A New Tool in the Armamentarium

Saad Sikanderkhal, Yi-Hwa Liu, Chi Liu, Edward Miller, Yale University, New Haven, CT, USA

330 - Serial Cardiac FDG-PET in the Diagnosis and Therapeutic Guidance of Patients With Cardiac Sarcoidosis: A Stanford Experience

Ning Ning, Haiwei H. Guo, Andrei Iagaru, Erik Mittra, Michael Fowler, Ronald Witteles, Stanford Department of Medicine, Palo Alto, CA, USA

331 - Is Disease Activity of Cardiac Sarcoidosis Suppressed During Maintenance Dose Period of Corticosteroid Therapy? Evaluation by FDG-PET

Jihaeng Im, Naoki Serizawa, Kenji Fukushima, Yasutaka Imamura, Arata Nomura, Akiko Sakai, Mitsuru Momose, Michinobu Nagao, Tsuyoshi Shiga, Koichiro Abe, Nobuhisa Hagiwara, Tokyo Women's Medical University, Shinjuku, Japan

332 - Advanced Imaging in Diagnosing Prosthetic Valve and Cardiac Device Infections: A Meta-Analysis

Eduardo Venegas, Elie Donath, Swethika Sundaravel, Stefanie Furlan, Robert Chait, University of Miami/JFK Medical Center, Atlantis, FL, USA

333 - Thallium-201 Spect Performed in Conjunction With Tc 99m Pyp Improves Quantification and Diagnostic Accuracy Of Tc 99m Pyp Uptake For Assessment of Patients With Suspected Cardiac Amyloidosis

Balaji Tamarappoo, Yuka Otaki, Yoav Arnsen, Mark Hyun, Heidi Gransar, Sean Hayes, John Friedman, Louise Thomson, Piotr Slomka, Damini Dey, Jignesh Patel, Daniel Berman, Cedars Sinai Medical Center, Los Angeles, CA, USA

334 - PYP Imaging With CZT Cameras Is a Sensitive and Specific Imaging Modality to Diagnose Ttr Cardiac Amyloidosis

Rachelle Morgenstern, Ted Pozniakoff, Adam Castano, Zachary Bokhari, Corduta Chiuza, Mathew Maurer, Sabahat Bokhari, Columbia University Medical Center, New York, NY, USA

335 - Prognostic Value of Left Ventricular Dyssynchrony Detected by Nuclear Cardiology in Patients With Coronary Artery Disease



Takumi Hatta, Shunichi Yoda, Koyuru Monno, Takashi Mineki, Yasuyuki Suzuki, Naoya Matsumoto, Atsushi Hirayama, Nihon University School of Medicine, Department of Cardiology, Tokyo, Japan

336 - Cardiac MIBG Imaging Might Identify Patients With Mild to Moderate Chronic Heart Failure and  $30 \leq \text{LVEF} \leq 35\%$  at Low Risk of Sudden Cardiac Death

Tsutomu Kawai, Takahisa Yamada, Takashi Morita, Yoshio Furukawa, Shunsuke Tamaki, Yusuke Iwasaki, Masato Kawasaki, Atsushi Kikuchi, Masahiro Seo, Iyo Ikeda, Eiji Fukuhara, Jun Nakamura, Makoto Abe, Kiyomi Kayama, Masatsugu Kawahira, Kazuya Tanabe, Masatake Fukunami, Osaka General Medical Center, Osaka, Japan

337 - The Volume of Denervated Myocardium Predicts Sudden Cardiac Death (SCD) and ICD Therapies For VF But Not ICD Therapies For Slower Ventricular Tachyarrhythmia (VT): An Analysis of the Prediction of Arrhythmic Events With Positron Emission Tomography (PAREPET) Study  
Vasvi Singh, Saurabh Malhotra, John Canty, James Fallavollita, University at Buffalo, Buffalo, NY, USA

338 - Improvement in Perfusion Scoring After Pulmonary Thromboendarterectomy Correlates With Improvement in Clinical: Hemodynamic and Right Heart Function  
Farhan Raza, Anjali Vaidya, Chandra Dass, Paul Forfia, Simin Dadparvar, Temple University Hospital, Philadelphia, PA, USA, Weill Cornell Medical Center-New York Presbyterian, New York, NY, USA

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Poster Contributions - Session #1295

#### Echocardiography in Assessment of Coronary Artery Disease

Monday, March 12, 2018, 9:30 a.m. - 12:30 p.m.

Poster Hall, Hall A/B

CME Hours: /CNE Hours:

339 - Molecular Imaging of Von Willebrand Factor Dysregulation and Platelet Adhesion in Myocardial Ischemia Reperfusion Injury  
Koya Ozawa, William Packwood, Qi Yue, Aris Xie, Melinda Wu, Jonathan R. Lindner, Oregon Health & Science University, Portland, OR, USA

340 - Elevated End-Diastolic Wall Stress After Acute Myocardial Infarction Predicts Adverse Cardiovascular Outcomes and Longer Hospital Length of Stay  
Wassim Mosleh, Tanvi Shah, Roshan Karki, Milind Chaudhari, Charl Khalil, Kevin Frodey, Dahal Suraj, Umesh Sharma, University at Buffalo, Buffalo, NY, USA

341 - Association Between Spatial Ventricular Gradient Direction and Regional Myocardial Deformation in the General Population: The Atherosclerosis Risk in Communities (ARIC) Study  
Tor Biering-Sorensen, Jonathan Waks, Muammar Kabir, Golriz Sedaghat, Wendy Post, Elsayed Soliman, Alfred Buxton, Amil Shah, Scott Solomon, Larisa Tereshchenko, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA

342 - The Incremental Prognostic Value of Left Ventricular Mechanical Dispersion in Patients After St-Segment Elevation Myocardial Infarction

Rachid Abou, Laurien Goedemans, Dilek Yilmaz, Edgard Prihadi, Pieter van der Bijl, Martin Schalijs, Nina Ajmone Marsan, Jeroen J. Bax, Victoria Delgado, Leiden University Medical Center, Leiden, The Netherlands

343 - Prognostic Value of Multilayer Left Ventricular Global Longitudinal Strain in Patients After St-Segment Elevation Myocardial Infarction With Preserved Left Ventricular Ejection Fraction

Rachid Abou, Laurien Goedemans, Edgard Prihadi, Martin Schalijs, Nina Ajmone Marsan, Jeroen J. Bax, Victoria Delgado, Leiden University Medical Center, Leiden, The Netherlands

344 - Multilayer Left Ventricular Global Longitudinal Strain and Left Ventricular Remodelling in Patients After St-Segment Elevation Myocardial Infarction

Rachid Abou, Laurien Goedemans, Edgard Prihadi, Martin Schalijs, Nina Ajmone Marsan, Jeroen J. Bax, Victoria Delgado, Leiden University Medical Center, Leiden, The Netherlands

345 - The Range of Microvascular Perfusion Patterns Observed in the Acute Setting of Takotsubo Cardiomyopathy: Comparison With Revascularized Acute ST Segment Elevation Myocardial Infarction Patients

Thomas Richard Porter, Sourabh Aggarwal, Chetaj A. Mahabir, Gregory Pavlides, Feng Xie, University of Nebraska Medical Center, Omaha, NE, USA

346 - Prognostic Implication of Perfusion Defect on Contrast Stress Echocardiography After Percutaneous Coronary Intervention

In-Cheol Kim, Hyungseop Kim, Sang-Wookng Choi, Han-Jun Bae, Seung-Woon Jun, Yun-Kyeong Cho, Hyoung-Seob Park, Hyuck-Jun Yoon, Chang-Wook Nam, Seongwook Han, Seung-Ho Hur, Yoon-Nyun Kim, Kwon-Bae Kim, Keimyung University Dongsan Medical Center, Daegu, South Korea

347 - Post-Systolic Shortening Predicts Cardiovascular Events and Coronary Artery Stenosis in Stable Angina Pectoris

Philip Brainin, Soren Hoffmann, Thomas Hansen, Flemming Javier Olsen, Jan Jensen, Tor Biering-Sorensen, Department of Cardiology, Gentofte University Hospital, Hellerup, Copenhagen, Denmark

348 - Echocardiography Utilization as a Predictor of Inhospital Mortality in Acute Myocardial Infarction

Ali Hama Amin, Sirish Shrestha, Tracy Cook-Carney, Marton Tokodi, Grace Casacalang-Verzosa, Muhammad Ashraf, Jason Moreland, Mohamad Alkhoul, Bryan Raybuck, Partho P. Sengupta, WVU Heart & Vascular Institute, Morgantown, WV, USA

349 - Baseline Strain: A Possible Predictor of Ischemia on Stress Echocardiography

David M. Harris, Donald Quimby Jr., University of Cincinnati, Cincinnati, OH, USA



350 - Evaluation of the Right Ventricular Systolic Function Recovery and Remodeling After Percutaneous Coronary Intervention in Patients With Inferior Wall and Right Ventricular Myocardial Infarction

Xue Yao, Bo Hu, Tuan-Tuan Tan, Qing Zhou, Rui-Qiang Guo, Renmin Hospital of Wuhan University, Wuhan, People's Republic of China

351 - Automated Assessment of Left Ventricular Systolic Function Predicts Functional and Clinical Outcomes After Acute Myocardial Infarction

Katsuomi Iwakura, Atsunori Okamura, Yasushi Koyama, Koichi Inoue, Mutsumi Iwamoto, Hiroyuki Nagai, Yuko Hirao, Koji Tanaka, Takafumi Oka, Yuichi Ninomiya, Tomohiro Yamasaki, Masato Okada, Akinori Sumiyoshi, Hiroyuki Inoue, Ryo Nakamaru, Takamasa Tanaka, Kohtaro Takayasu, Kota Tanaka, Ryo Kitagaki, Kenshi Fujii, Sakurabashi-Watanabe Hospital, Osaka, Japan

352 - Left Ventricular Global Longitudinal Strain and Long-Term Prognosis in Patients With Chronic Obstructive Pulmonary Disease After Acute Myocardial Infarction

Laurien Goedemans, Rachid Abou, Georgette Hoogslag, Nina Marsan, Victoria Delgado, Jeroen J. Bax, Leiden University Medical Center, Leiden, The Netherlands

353 - Right Ventricular Dysfunction Determined by 2d- Speckle Tracking Echocardiography After St-Segment Elevation Myocardial Infarction in Patients With Chronic Obstructive Pulmonary Disease

Laurien Goedemans, Georgette Hoogslag, Rachid Abou, Martin Schali, Nina Marsan, Jeroen J. Bax, Victoria Delgado, Leiden University Medical Center, Leiden, The Netherlands

354 - Prognostic Value of Persistently Abnormal Left Ventricular Global Longitudinal Strain in Patients With Subarachnoid Hemorrhage

Nobuyuki Kagiya, Yuko Soyama, Elizabeth A. Crago, Masataka Sugahara, Nina E. Hasselberg, Theodore Lagattuta, Khalil Moh'd Yousef, Marilyn T. Hravnak, John Gorcsan III, Washington University in St. Louis, St. Louis, MO, USA, University of Pittsburgh, Pittsburgh, PA, USA

355 - Lack of Association of Echocardiographic Diastolic Parameters With Patient Perceived Well-Being

Chonyang Albert, Zoran Popovic, Albree Tower-Rader, Brian Griffin, Rory Hachamovitch, Cleveland Clinic Foundation, Cleveland, OH, USA

356 - The Feasibility of Global Longitudinal Strain in Clinical Practice and Relationship With Ejection Fraction

Isabelle Lin, Brian Yu, Haley Boyd, Sydney Winchester, Erin Caldwell, Katherine Lin, Betty Cornish, Steve Lin, Saint Joseph Hospital, Lexington, KY, USA, University of Chicago, Chicago, IL, USA

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Moderated Poster Contributions - Session #1312M**

**Non Invasive Imaging and PET Imaging**

**Monday, March 12, 2018, 9:45 a.m. - 10:30 a.m.**

**Non Invasive Imaging Moderated Poster Theater, Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

ACC Poster Moderator: Andrew Jeffrey Einstein

ACC Poster Moderator: Thomas H. Marwick

9:45 a.m.

Impact of Revascularization on Absolute Myocardial Blood Flow as Assessed by Serial [<sup>15</sup>O]H<sub>2</sub>O PET Imaging: A Comparison With Fractional Flow Reserve

Roel Driessen, Ibrahim Danad, Wijnand Stuijzand, Stefan Schumacher, Juhani Knuuti, Adriaan Lammertsma, Albert van Rossum, Niels Van Royen, Pieter Raijmakers, Paul Knaapen, VU University Medical Center, Amsterdam, The Netherlands

9:55 a.m.

Question and Answer

10:00 a.m.

Interleukin-1 Beta Is Associated With Aortic Vascular Inflammation Assessed by 18-FDG PET/CT in Patients With Psoriasis

Agastya Belur, Youssef Elnabawi, Amit Dey, Aparna Sajja, Aditya Goyal, Charlotte Harrington, Jacob Groenendyk, Heather Teague, Yvonne Baumer, Navya Nanda, Mark Ahlman, Aditya Joshi, Martin Playford, Nehal Mehta, National Institutes of Health, Bethesda, MD, USA

10:10 a.m.

Question and Answer

10:15 a.m.

Fluorine-18 LMI1195 Positron Emission Tomography Provides Accurate Measure of Cardiac Sympathetic Innervation Compared to Carbon-11 Hydroxyephedrine

Jason Zelt, Jennifer Renaud, Lisa Mielniczuk, Linda Garrard, Olga Walter, Ann Guo, Robert deKemp, Rob Beanlands, University of Ottawa Heart Institute, Ottawa, Canada

10:25 a.m.

Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**

**Scientific - Session #735**

**Debates in Multimodality Imaging: Choosing the Right Test for Diagnosis, Management, Value**

**Monday, March 12, 2018, 10:45 a.m. - 12:15 p.m.**

**Room 311 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair Jagat Narula

Co-Chair Leslee J. Shaw

10:45 a.m.

Debate 1: Imaging for New-Onset Systolic Heart Failure - Echocardiography + Ischemic Evaluation Gets the Job Done



Mario J. Garcia  
Bronx, NY

10:55 a.m.  
Debate 1: Imaging for New-Onset Systolic Heart Failure - Cardiac MRI Should Be First Test in Every Case  
Dudley J. Pennell  
London SW3 6NP, United Kingdom

11:05 a.m.  
Rebuttal  
11:10 a.m.  
Question and Answer

11:15 a.m.  
Debate 2: Non-Invasive Chest Pain Evaluation in the ED -Time Tested: Nuclear Imaging Is Still First Line  
James Udelson  
Boston, MA

11:25 a.m.  
Debate 2: Non-Invasive Chest Pain Evaluation in the ED - Coronary CTA Is the Only Option  
James K. Min  
New York, NY

11:35 a.m.  
Rebuttal  
11:40 a.m.  
Question and Answer

11:45 a.m.  
Debate 3: Role of Viability Imaging to Guide Revascularization - Nuclear/PET Is the Gold Standard  
Timothy M. Bateman  
Kansas City, MO

11:55 a.m.  
Debate 3: Role of Viability Imaging to Guide Revascularization - Cardiac MRI Provides So Much More  
Christopher M. Kramer  
Charlottesville, VA

12:05 p.m.  
Rebuttal  
12:10 p.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #736**  
**What's New in Nuclear Cardiology?**  
**Monday, March 12, 2018, 10:45 a.m. - 12:15 p.m.**  
**Room 308 A**  
**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair Brian G. Abbott  
Co-Chair Sharmila Dorbala

10:45 a.m.  
Diagnosis of Prosthetic Valve Endocarditis and Device Infections

Vasken Dilsizian  
Baltimore, MD

11:05 a.m.  
Tc-PYP Imaging for Cardiac Amyloidosis  
Sabahat Bokhari  
Green Brook, NJ

11:25 a.m.  
Solid State Detector SPECT: Perfusion and Flow Quantification  
Marcelo F. Di Carli  
Boston, MA

11:40 a.m.  
Hybrid Imaging  
Robert J. Gropler  
Saint Louis, MO

12:00 p.m.  
Question and Answer

**Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)**  
**Scientific - Session #752**  
**What's New in Cardiac CT?**  
**Monday, March 12, 2018, 12:30 p.m. - 1:45 p.m.**  
**Room 308 A**  
**CME Hours: 1.25 /CNE Hours: 1.25**

Co-Chair Kavitha Chinnaiyan  
Co-Chair Quynh A. Truong

12:30 p.m.  
Cardiac CT and Value-Based Imaging: Where Do We Stand?  
Leslee J. Shaw  
Atlanta, GA

12:42 p.m.  
Cardiac CT in the ED in the Era of High Sensitive Troponin Assays  
Maros Ferencik  
Portland, OR

12:54 p.m.  
CT for Cardiac Interventions  
Philipp Blanke  
Vancouver, Canada

1:06 p.m.  
FFR-CT and CT Myocardial Perfusion  
Jonathon Leipsic  
Vancouver, Canada

1:18 p.m.  
Plaque Characterization and Clinical Implications  
Damini Dey  
Los Angeles, CA

1:30 p.m.  
Question and Answer



### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Moderated Poster Contributions - Session #1321M

#### Non Invasive Imaging CT and MR

**Monday, March 12, 2018, 12:30 p.m. - 1:45 p.m.**

**Non Invasive Imaging Moderated Poster Theater, Poster Hall, Hall A/B**

**CME Hours: /CNE Hours:**

ACC Poster Moderator: Michael Cheezum

ACC Poster Moderator: R. Parker Ward

12:30 p.m.

Machine Learning in Predicting Coronary Heart Disease and Cardiovascular Disease Events: Results From the Multi-Ethnic Study of Atherosclerosis (MESA)

Rine Nakanishi, Damini Dey, Frederic Commandeur, Piotr Slomka, Julian Betancur, Heidi Gransar, Christopher Dailing, Kazuhiro Osawa, Daniel Berman, Matthew Budoff, Toho University Faculty of Medicine, Tokyo, Japan, Los Angeles BioMedical Institute at Harbor UCLA Medical Center, Torrance, CA, USA

12:40 p.m.

Question and Answer

12:45 p.m.

Predictors of Mortality and Conduction Disturbances in Women Undergoing TAVR: A CT Sub-Analysis of the WIN-TAVI Registry  
Marco Spaziano, Jaya Chandrasekhar, Samantha Sartori, Alaide Chieffo, Thierry Lefevre, A. Sonia Petronio, Patrizia Presbitero, Didier Tchetché, Alessandro Iadanza, Nicolas Van Mieghem, Julinda Mehilli, Roxana Mehran, Marie-Claude Morice, WIN-TAVI Investigators, Institut Cardiovasculaire Paris-Sud, Massy, France, McGill University Health Center, Montreal, Canada

12:55 p.m.

Question and Answer

1:00 p.m.

Use of Dual-Energy Coronary Computed Tomography For Evaluation of Necrotic Core in Patients With Sudden Cardiac Death

Aeshita Dwivedi, Fay Lin, Navneet Narula, Asim Rizvi, Wijnand Stuijzand, Ji Hyun Lee, Donghee Han, Yao Lu, Mahn Won Park, Hadi Mirhedayati Roudsari, Alessandra DiFranco, Kazuyuki Yahagi, Sho Torii, Robert Kutys, Erica Jones, Jessica Pena, Subhi Al'Aref, Michael Eagle, Dana Jackson, David Fowler, James Earls, James K. Min, Renu Virmani, Dalio Institute of Cardiovascular Imaging, New York-Presbyterian Hospital and Weill Cornell Medicine, New York, NY, USA, CVPath Institute, Inc., Gaithersburg, MD, USA

1:10 p.m.

Question and Answer

1:15 p.m.

Initiation of Disease-Modifying Antirheumatic Drugs and Biological Agents Leads to Early Resolution of Pericardial Delayed Hyperenhancement in Patients With Recurrent Pericarditis  
Kimi Sato, Arnav Kumar, Beni Verma, Chandra Ala, Vivek Menon, Rory Hachamovitch, Deborah Kwon, Apostolos Kontzias, Allan Klein, Cleveland Clinic, Cleveland, OH, USA

1:25 p.m.

Question and Answer

1:30 p.m.

Poor Glycemic Control Is Associated With Increased Interstitial Fibrosis in Diabetic Patients With and Without Heart Failure With Preserved Ejection Fraction (HFpEF)

Julio A. Chirinos, Amer A. Syed, Anila Hussain, Zeba Hashmath, Maheswara Reddy Koppula, Ali Tariq, Swapna Varakantam, Bilal Ansari, Jonathan Lee, Scott Akers, University of Pennsylvania, Philadelphia, PA, USA

1:40 p.m.

Question and Answer

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Scientific - Session #766

#### Practical Applications of the Updated AHA/ACC and ASE Valve Guidelines

**Monday, March 12, 2018, 2:00 p.m. - 3:30 p.m.**

**Room 311 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Catherine M. Otto

Co-Chair: William A. Zoghbi

Panelist: Linda D. Gillam

Panelist: Paul A. Grayburn

Panelist: Stephen Henry Little

Panelist: Jyothy J. Puthumana

2:00 p.m.

Degenerative Mitral Regurgitation

Paul A. Grayburn

Dallas, TX

2:20 p.m.

Functional Mitral Regurgitation

Linda D. Gillam

Morristown, NJ

2:40 p.m.

Aortic Regurgitation

James D. Thomas

Chicago, IL

3:00 p.m.

Functional Tricuspid Regurgitation

Stephen Henry Little

Houston, TX

3:20 p.m.

Panel Discussion



### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Scientific - Session #767

#### Challenging Cases in Valvular Heart Disease: Critical Role of Imaging

**Monday, March 12, 2018, 2:00 p.m. - 3:30 p.m.**

**Room 308 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Michael W. Cullen

Co-Chair: Rosario Freeman

2:00 p.m.

Case Presentation: Severe Asymptomatic Aortic Stenosis. What Are the High Risk Features Found on Imaging ?

Smadar Kort

Roslyn, NY

2:12 p.m.

Question and Answer

2:18 p.m.

Case Presentation: Paradoxical Low Flow AS - Key Echo Findings

Salvatore P. Costa

Lebanon, NH

2:30 p.m.

Question and Answer

2:36 p.m.

Case Presentation: A Bioprosthetic Valve With Elevated Gradients

- Role of Imaging

Miguel A. Quinones

Houston, TX

2:48 p.m.

Question and Answer

2:54 p.m.

Case Presentation: TAVR Patient With Paravalvular Leak at Follow-up. How to Assess Severity and Manage

M. Chadi Alraies

Arlington, VA

3:06 p.m.

Question and Answer

3:12 p.m.

Case Presentation: Isolated Severe Tricuspid Regurgitation - Is It All About RV Assessment and Best Imaging Practice

Judy W. Hung

Boston, MA

3:24 p.m.

Question and Answer

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### Scientific - Session #774

#### Don't Forget the Right Ventricle: Multimodality Imaging

**Monday, March 12, 2018, 3:45 p.m. - 5:15 p.m.**

**Room 311 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Roberto M. Lang

Co-Chair: Sarah Rinehart

Panelist: Karima Addetia

Panelist: Angel Javier Sanz Salvo

Panelist: Nelson B. Schiller

Panelist: Partho P. Sengupta

3:45 p.m.

Right Ventricle Assessment by Echocardiography

Karima Addetia

Chicago, IL

4:00 p.m.

Right Ventricle Assessment by Cardiac MRI

Angel Javier Sanz Salvo

New York, NY

4:15 p.m.

Imaging Assessment of Pulmonary Embolism, Pulmonary Hypertension

Partho P. Sengupta

Morgantown, WV

4:30 p.m.

Imaging Assessment of Arrhythmogenic Right Ventricular Cardiomyopathy

Lucy Safi

Boston, MA

4:45 p.m.

RV Potpourri: Carcinoid, Ebstein's, and Tricuspid Pathology

Nelson B. Schiller

San Francisco, CA

5:00 p.m.

Panel Discussion With Questions and Answer

### Non Invasive Imaging (Echocardiography, Nuclear, PET, MR & CT)

#### ACC Section Highlights - Session #1402

#### Sports and Imaging Section Highlights for ACC.18

**Monday, March 12, 2018, 3:45 p.m. - 5:15 p.m.**

**Room 308 A**

**CME Hours: 1.5 /CNE Hours: 1.5**

Co-Chair: Victor A. Ferrari

Co-Chair: Matthew W. Martinez

3:45 p.m.

Moderated Poster Sessions, Abstracts, LBCT's - What you may Have Missed but is a Must Hear

3:45 p.m.

ACC-Talk: Congenital Heart Disease/Adult Congenital Heart Disease



Stephen M. Paridon

3:55 p.m.

ACC-Talk: Sports Cardiology

Eugene H. Chung

Ann Arbor, MI

4:05 p.m.

ACC-Talk: Imaging

Victor A. Ferrari

Philadelphia, PA

4:15 p.m.

Individual Session Highlights and Take Home Points

4:15 p.m.

"Top Ten": Sports Cardiology

Michael Scott Emery

Indianapolis, IN

4:30 p.m.

"Top Ten": Imaging

Jeffrey Benjamin Geske

Rochester, MN

4:45 p.m.

Game Show: Sports Cardiology vs Imaging

4:45 p.m.

Game Show Host

Victor A. Ferrari

Philadelphia, PA

4:45 p.m.

Game Show Host

Matthew W. Martinez

Allentown, PA

4:45 p.m.

Sports Cardiology Game Show Contestant

Michael Scott Emery

Indianapolis, IN

4:45 p.m.

Sports Cardiology Game Show Contestant

Jeffrey S. Lander

Florham Park, NJ

4:45 p.m.

Imaging Game Show Contestant

Vera H. Rigolin

Chicago, IL

4:45 p.m.

Imaging Game Show Contestant

Todd C. Villines

Rockville, MD